SERVICE MANUAL

FISHER

用含-270

AM/FM STEREO
QUARTZ LOCKED DIGITAL
SYNTHESIZER RECEIVER
(EUROPE)



NOTE:

The phono on the cover shows the unit with a "BRUSHED ALUMINUM" front panel. The "BLACK" version is identical in all respects.

The first name in high fidelity

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SPECIFICATIONS

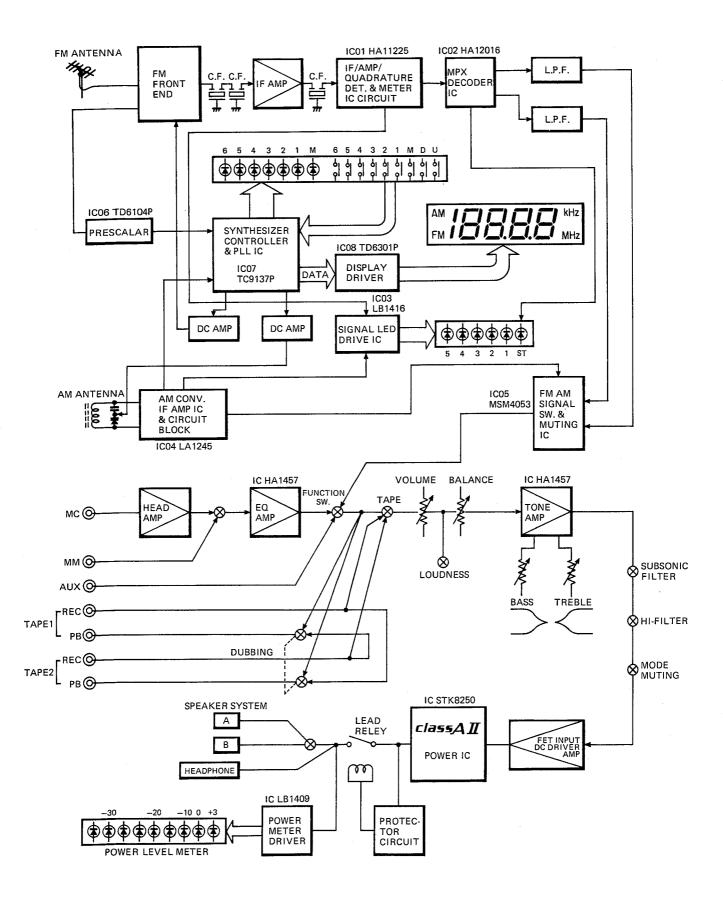
RE	CEIVER	RS-270		
FM SECTION				
Tuning Range		87.5 – 108 MHz		
DIN Sensitivity (75 ohm	s) Mono	1.8 μV		
Stereo Trigger Sensitivity		8.0 µV		
Muting Threshold		8.0 μ∨		
S/N Ratio (DIN)	Mono	75 dB		
	Stereo	70 dB		
Selectivity (DIN)		70 dB		
Capture Ratio		0.8 dB		
AM Suppression		55 dB		
Spurious Rejection		85 dB		
IF Rejection		100 dB		
Image Rejection		70 dB		
Sub-Carrier Suppression	(19/38 kHz)	65/70 dB		
THD (1 kHz)	Mono	0.3 %		
	Stereo	0.4 %		
Frequency Response (20) Hz — 15 kHz)	±0.5 dB		
Stereo Separation (1 kH	z)	50 dB		

SPECIFICATIONS (Continued)

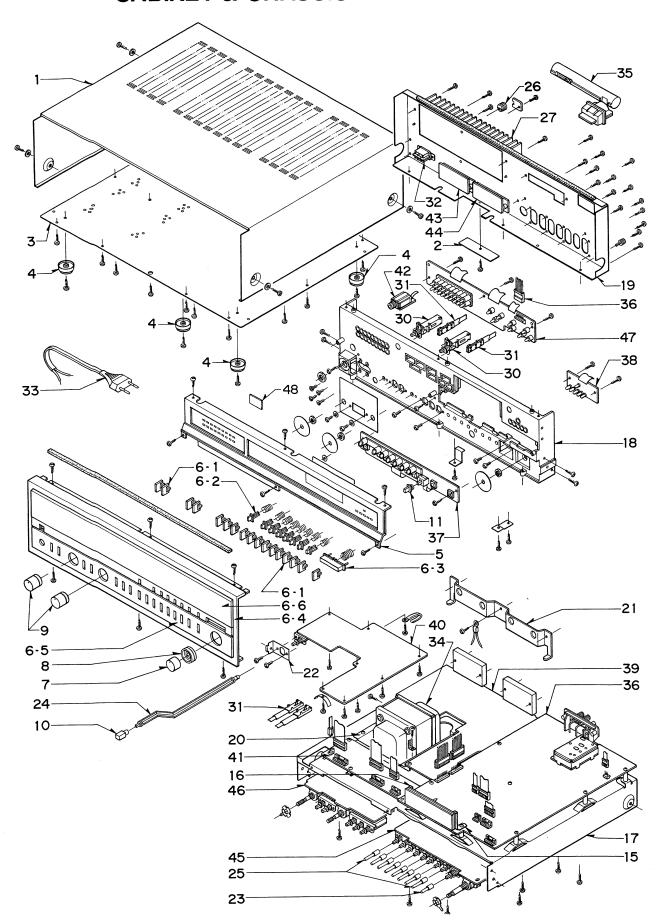
AM SECTION		522 – 1602 kHz			
Tuning Range		300 μV/m			
Sensitivity 	A				
S/N Ratio		55 dB			
Image Rejection		50 dB			
Selectivity (±10 kHz)		40 dB			
THD (30 % Mod.)		0.3 %			
Spurious Rejection		55 dB			
IF Rejection		45 dB			
AMPLIFIER SECTION					
Sine Wave Power	at 1,000 Hz (8 ohms)	2 x 62 W			
	20 to 20,000 (8 ohms)	2 × 50 W			
Music Power (8 ohms)		2 x 70 W			
THD (Rated Output, 8 oh	ms)	0.02 %			
IM (Rated Output, 8 ohms)		0.02 %			
Damping Factor (8 ohms)		>50			
Frequency Response (20 H	tz – 20 kHz)	±0.5 dB			
Input Sensitivity and	Phono MC	60 μV/22 ohms			
Impedance	Phono MM	2.5 mV/50 kohms			
	Tape	150 mV/50 kohms			
	Aux	150 mV/50 kohms			
S/N Ratio (DIN)	Phono	80 dB			
	Tape/Aux	100 dB			
Treble Control 10 kHz (T	urn-over 3 kHz)	±10 dB			
Bass control 100 Hz (Turr	n-over 400 Hz)	±10 dB			
Loudness Control (100 Ha	z/10 kHz)	+8 dB/+4 dB			
GENERAL					
Power Requirements		AC: 110/220 V, 50 Hz			
Power Consumption		260 W			
Dimensions (W x D x H)		440 x 400 x 132 mm			
Weight (approx.)		11.5 kg			

Because its products are subject to continuous improvement, Fisher Corporation reserves the right to modify product designs and specifications without notice and without incurring any obligation.

FUNCTIONAL BLOCK DIAGRAM



CABINET & CHASSIS EXPLODED VIEW



PARTS LIST

PACKING PARTS LIST

Ref. No.	Parts Number	Description
	131 6 1139 85902	Box Corrugate-EXP
	131 6 2119 02121	Bag Polyethylene-EXP
	131 6 3009 31260	Pad, (Right)
	131 6 3009 31270	Pad, (Left)

ACCESSORIES PARTS LIST

R	Ref. No.	Parts Number	Description
		131 6 2719 10801	Bag Fan
		131 6 4119 85208	Explanatory Booklet
		131 6 4159 35800	Notes
		131 6 4519 15700	Guarantee Certificate

CABINET PARTS LIST

Ref. No.	Parts Number	Description
1	131 2 1410 24401	Cover
2	131 2 1410 25000	Cover
3	131 2 1105 26500	Plate Bottom
4	131 2 1801 12900	Leg

APPEARANCE PARTS LIST

Ref. No.	Parts Number	Description
5	131 0 1008 13200	Plate Dial Assy
6	131 0 1016 36707	Panel Decorate Assy (Silver)
6—	131 0 1016 36706	Panel Decorate Assy (Black)
6-1	131 0 1001 58203	Push Switch Knob (Silver)
0-1	131 0 1001 58202	Push Switch Knob (Black)
6-2	131 0 1001 58303	Push Switch Knob (Silver)
0-2	131 0 1001 58302	Push Switch Knob (Black)
6-3	131 0 1001 58403	Tuning Switch Knob (Silver)
0-5	131 0 1001 58402	Tuning Switch Knob (Black)
6-4	131 2 1203 49701	Panel Control (Silver)
0-4	131 2 1203 49700	Panel Control (Black)
6-5	_131 2 1203 49803	Panel Control (Silver)
0-5	131 2 1203 49802	Panel Control (Black)
6-6 ^L	-131 2 1205 24800	Decorate Plate Dial
7	131 0 1001 56901	Upper Volume Knob (Silver)
,	131 0 1001 56900	Upper Volume Knob (Black)
8	131 0 1001 57001	Under Volume Knob (Silver)
0	131 0 1001 57000	Under Volume Knob (Black)
9	131 0 1001 57101	Tone Knob (Silver)
9	131 0 1001 57100	Tone Knob (Black)
10	131 2 1601 64100	Knob (Power Switch)
11	131 2 1601 65800	Knob (Push Switch)

CHASSIS PARTS LIST

Ref. No. Parts Number

15		131 2 3101 73100 M	Metal Mount
16		131 2 3101 74300 M	Metal Mount
17	*	131 2 3301 27300 C	Chassis
18	*	131 2 3305 29800 P	anel Front
19	*	131 2 3306 32102 P	anel Rear
20		131 2 3617 18200 M	Metal Mount Transformer
21		131 2 3701 27800 M	Mount E Parts
22		131 2 3701 27900 M	Mount E Parts
23		131 2 4121 00700 C	Coupling (Push Switch)
24		131 2 4121 00800 C	Coupling (Power Switch)
25		131 2 4121 00900 C	Coupling (Push Switch)
26		131 2 6111 14200 B	Bushing (AC Cord)
27		131 2 6201 28901 P	Plate Heat Sink (Panel Rear)

Description

Description

ELECTRICAL PARTS LIST

Ref. No. Parts Number

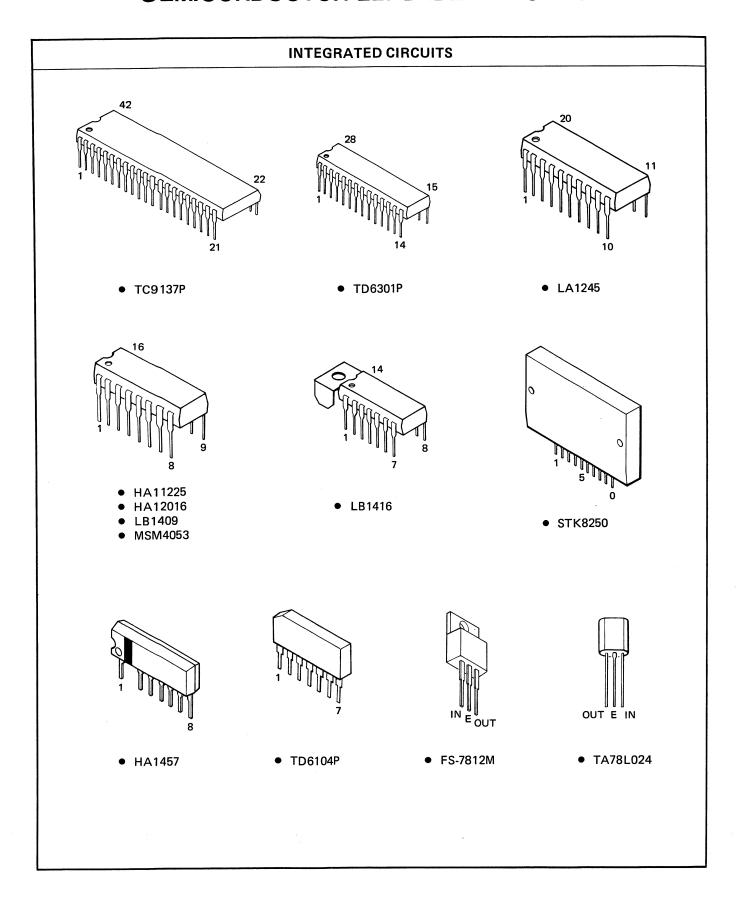
30	Δ	4 2312 03680	Switch, Push
31		4 2312 03682	Joint Switch
32	$oldsymbol{\Lambda}$	4 2312 01020	Switch Slide
33	Δ	4 2432 00071	Power Cord
34	Δ	4 2512 13020	Power Transformer
35		4 2579 25260	Bar Antenna AM
36	*	131 0 4001 05731	RF Control P.C.B. Assy
37	*	131 0 4001 05740	Switch P.C.B. Assy
38	*	131 0 4001 05750	Signal P.C.B. Assy
39	*	131 0 4001 05641	Power Amp P.C.B. Assy
40	*	131 0 4001 05652	Power Supply P.C.B. Assy
41	*	131 0 4001 05661	L.E.D. Drive P.C.B. Assy
42	*	131 0 4001 05671	Headphone Jack P.C.B. Assy
43	*	131 0 4001 05681	SP Terminal 1 P.C.B. Assy
44	*	131 0 4001 05691	SP Terminal 2 P.C.B. Assy
45	*	131 0 4001 05700	Phono EQ P.C.B. Assy
46	*	131 0 4001 05710	Tone Amp P.C.B. Assy
47	*	131 0 4001 05720	L.E.D. Lamp P.C.B. Assy
48	*	131 0 4001 06611	Power Ind. P.C.B. Assy
R01	,02	R2HCPK185A	Solid 1.8 M 1/2W ±10%

*—Not a service part.

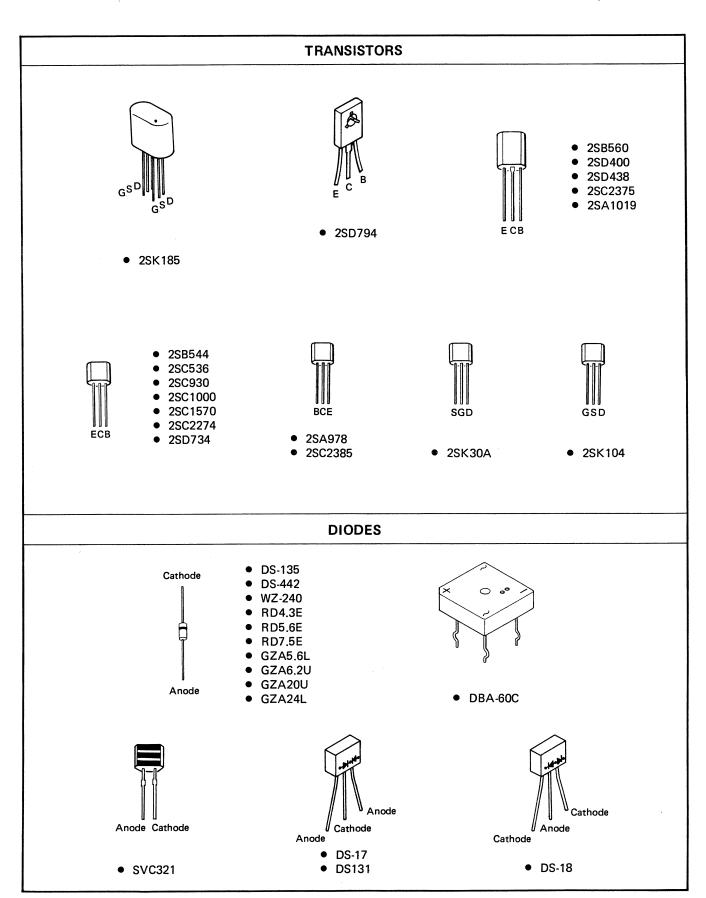
PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF AN UNIT. COMPONENTS INDICATED BY AMARK A IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAS SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

SEMICONDUCTOR LEAD IDENTIFICATION



SEMICONDUCTOR LEAD IDENTIFICATION (Continued)



FM TUNER ALIGNMENT

FM ALIGNMENT — FUNCTION switch to FM, MUTING switch to OFF, VOLUME control to minimum.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE			
tuning an	F circuit utilizes a non-tu d selectivity, the IF m Hz as in conventional LC	ust be aligned pre	r which establishes the cisely to the center	e IF bandpass. To insure symmetyical of the filter bandpass, rather than			
I. PRELIMI- NARY DE- TECTOR ALIGN- MENT	Connect 10.7 MHz Sweep Generator to IF and, ground lead to chassis. Adjust for S-curve	Position of non- interference	Scope vertical input to Pin 3.	Adjust T01 for maximum gain and best linearity. Adjust T02 for mini mum gain and best linearity. See Figure 3.			
2. S-CURVE CENTER ALIGN- MENT	display. Set generator output to 60 dB.		Connect DC VTVM across Pin 5 and Pin 2.	Adjust VR07 until VTVM reads 0 V. See Figure 4.			
3. FINAL DETECTOR ADJUST- MENT (MINIMUM T.H.D.)	Set generator to receiver frequency. Modulate with 400 Hz ±75 kHz deviation. Connect generator to FM ANT terminals.	Same as above	Harmonic Distortion Analyzer to LEFT REC OUT Jack.	Adjust T02 for minimum distortion.			
4. Repeat steps 1	\sim 3 until optimum alignn	nent is reached.					
5. SIGNAL LED ADJUST- MENT	Connect FM RF generator through FM Dummy ANTENNA to FM ANTENNA terminals. Set generator to 98 MHz. (60 dB)	Set to 98 MHz.	Front Panel SIGNAL LED display	Adjust VR06 until the fifth signal, LED partly lights up.			
in no-sig	that all signal LED light nal mode and confirm t ED Adjustment.	up brightly when t hat all LED are ex	the antenna input is in	creased to 100 dB. Then, set the inpu ds. Perform this adjustment after AM			
6. FM STOP LEVEL ADJUST- MENT	Set generator to 98 MHz, Adjust ATT output for 5µV. (14 dB)	Same as above	Connect DC VTVM to Pin 8.	Adjust VR01 until VTVM reads 4 V.			
7. PLL IC FREE RUN FREQ. CONT. ADJUST- MENT (76 kHz)		Same as above	Connect frequency counter to Pin 6.	Adjust VR03 in multiplex circuit to abtain 76 kHz±800 Hz on counter.			
8. FM STEREO SIGNAL SEPARATION CONTROL	Connect FM stereo SG to FM ANT terminals. 19 kHz sig- nal ON. Main channel, sub channel signal ON. Apply 100 Hz signal from LEFT channel.		Scope and AC- VTVM to RIGHT output jack.	Adjust VR02 for minimum output.			
	Same as above for RIGHT channel.		Scope and AC- VTVM to LEFT output jack.				

RECOMMENDED TEST EQUIPMENTS

The following test equipment is recommended to completely test and align the tuner

- Line Voltage Isolation Transformer
- AC DC Multimeter.
- Accurately Calibrated AC Voltmeter
- Oscilloscope (Flat to 100 kHz Minimum)
- Signal Generator for AM
- IF Gene-scope

- Loop Antenna for AM
- Signal Generator for FM
- Multiplex Generator
- Dummy Antenna for FM

CONTROL SETTINGS:

AM TUNER ALIGNMENT

AM ALIGNMENT — FUNCTION switch to AM position

Maintain generator output as low as possible for suitable indication.

		444 5141		T.
ITEM	GENERATOR	AM DIAL SETTING	INDICATOR	PROCEDURE
1. IF ALIGN- MENT	Connect 450 kHz sweep generator to TP1 and ground lead to chassis. Use 0.1 µF capacitor in series with generator lead.	Position of non- interference Minimum Frequency	Scope vertical input to Pin 7 and ground lead to chassis. Set vertical sensitivity to 0.2 V/cm.	Adjust T03, T04 for maximum gain and best symmetry. Keep signal low enough for noise on response as shown in Figure 1.
2. FRONT END ALIGN- MENT (603 kHz)	AM generator to EXT AM ANT and GND ter- minals Set to 603 kHz. Modu- late with 400 Hz (30 % modulation).	Set to 600 kHz.	Connect oscillo- scope to Record Out terminal.	Adjust Bar Antenna to maximum output. See Figure 2.
3. FRONT END ALIGN- MENT (1404 kHz)	Set to 1404 kHz.	Set to 1400 kHz	Same as above	Adjust TC02 to maximum output.
4. TRACKING ALING- MENT (522 kHz)		Set to 522 kHz	Connect DC VTVM to Pin 9.	Adjust T05 until VTVM reads 1.2 V.
5. TRACKING ' ALIGN- MENT (1602 kHz)		Set to 1602 kHz	Same as above	Adjust TC01 until VTVM reads 8.0 V.
6. AM STOP ADJUST- MENT	Same as above Set generator at 999 kHz to antenna input (64 dB).	Set to 999 kHz		Check that Auto Stop Function works at 999 kHz on DIGITAL Counter.
7. SIGNAL IND. ADJUST- MENT	Set generator at 1000 kHz to antenna input (100 dB).	Same as above		Adjust VR05 until all LEDs light up.

RECOMMENDED TEST EQUIPMENTS

The following test equipments are recommended to completely test and align the Amplifier:

- Line Voltage Isolation Transformer
- AC DC Multimeter.
- Accurately Calibrated AC Voltmeter.
- Oscilloscope (Flat to 100 kHz Minimum)
- Low-Distortion Audio Sine-Wave Generator
- Harmonic Distortion Analyzer
- Two (2) Load Resistors 8-ohms, 250 Watts (Minimum Rating)

HARMONIC DISTORTION TEST

CAUTION: Limit the following tests to no more than ten minutes each. Use 8-ohm resistors, with a minimum power rating of 250 watts when connecting a load across the SPEAKERS terminal.

CONTROL SETTINGS:

Unplug the AC power cord and set the front panel controls as follows:

- BASS, TREBLE, and BALANCE controls to center positions.
- POWER switch to OFF
- SPEAKERS switch to OFF
- FUNCTION switch to AUX
- MODE switch to STEREO
- TAPE MONITOR switch to SOURCE
- LOUDNESS switch to OFF
- VOLUME control to MINIMUM position
- LEFT CHANNEL DRIVEN

ONE CHANNEL DRIVEN:

- 1) Connect a low distortion audio generator to LEFT AUX IN jack. Set generator frequency to 1 kHz and output to minimum.
- 2) Connect an 8-ohm load resistor between SPEAKERS A LEFT and COM terminals. Connect a Harmonic Distortion Analyzer and an AC VTVM in parallel across the 8-ohm load.
- 3) Connect the AC power cord and set SPEAKERS switch to A. Turn VOLUME control to MAX.
- 4) Increase generator output for 50 Watts RMS across the 8-ohm load). Harmonic (20 V Distortion Analyzer should measure 0.02 % distortion or less.
- 5) Repeat steps 1 through 4 for RIGHT CHANNEL.

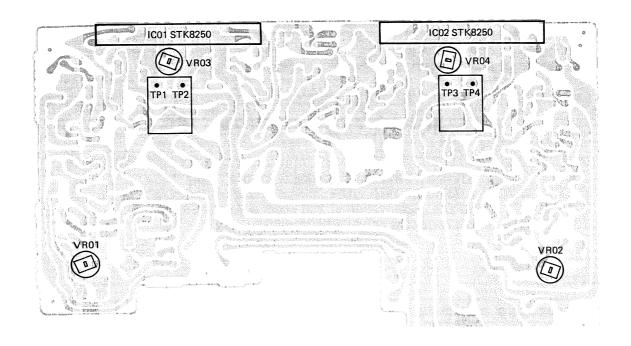
BOTH CHANNELS DRIVEN

Connect 8-ohm load resistors across LEFT and RIGHT MAIN SPEAKERS terminals. Set MODE switch to "MONO". Adjust generator output and "BALANCE" control for 50 Watts at Left and Right Channels (20 volts across the 8-ohm loads). Harmonic Distortion Analyzer should measure 0.02 % distortion or less at each channel.

CAUTION: This precision high-fidelity instrument should be serviced only by qualified personnel trained in the repair of transition.

POWER AMP P.C.BOARD

(TOP VIEW)



POWER LEVEL METER ADJUSTMENT

BEFORE ADJUSTMENT

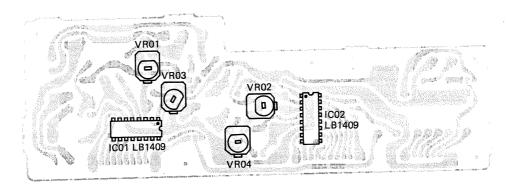
- 1. Connect Audio Frequency Generator to the AUX input terminal.
- 2. Set Function Switch to "AUX" position.
- 3. Connect dummy load resistors (8 ohms) to the speaker terminal.
- 4. Use a DC V.T.V.M. (input impedance: more than 50 kohms/V).

POWER LEVEL METER ADJUSTMENT

- 1. Adjust Volume of the unit or Attenuator of the oscillator until AC V.T.V.M. reads 11.0 V. At this time, adjust VR01 and VR02 until the eighth LED lights up (The output becomes 50 W).
- 2. Reduce the input and set the indication of AC V.T.V.M. to 300 mV. Then, adjust VR03 and VR04 until the first LED lights up. (Confirm Items 1 and 2 again).

L.E.D. DRIVE P.C.BOARD

(TOP VIEW)



CHANNEL SPACE CHANGE-OVER IN SYNTHESIZER TUNER

Frequency spaces in FM/AM Synthesizer Tuner are made at every 50 kHz (FM) and 9 kHz (AM) point. The above frequency spaces can be changed over to 100 kHz (FM) and 10 kHz (AM) points when used in U.S.A. Change the spaces by the following procedures.

- 1. Turn off the power switch.
- 2. Remove R157 (100 k-ohm). (Fig. 1).
- 3. Connect Pin No. 6 of IC01 (TC9137P) to GND with a jumper lead. (Fig. 2).

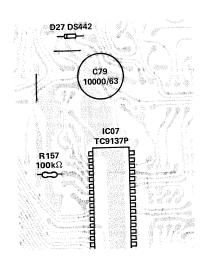


Figure 1

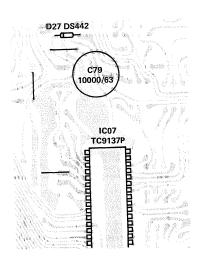


Figure 2

POWER AMPLIFIER ADJUSTMENT

BEFORE ADJUSTMENT

- 1. After setting the power switch to the ON position, allow a few minutes before making adjustment, to be sure of the most stable operation.
- Connect dummy load resistors (8 ohms) to the Speaker terminals.
- 3. Use a DC V.T.V.M. (input impedance: More than 50 kohms/V).

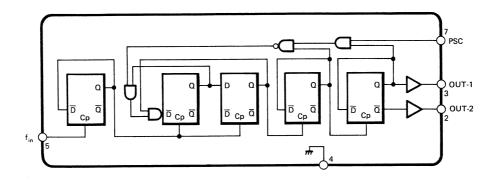
ZERO BALANCE ADJUSTMENT

 Connect DC V.T.V.M. to the speaker output terminal and turn the volume control fully to the minimum position. Turn VR01 and VR02 in P.C.B. under the above condition until the output voltage becomes 0±50 mV.

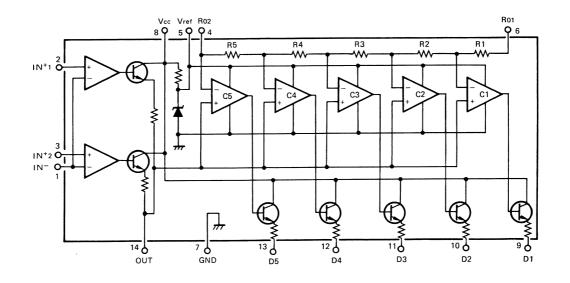
IDLING CURRENT ADJUSTMENT

- 1. Left channel
- Connect DC V.T.V.M. between TP1 and TP2.
- Adjust VR03 to 40mV DC voltmeter indication.
- 2. Right channel
- Connect DC V.T.V.M. between TP3 and TP4.
- Adjust VR04 to 40mV DC voltmeter indication.

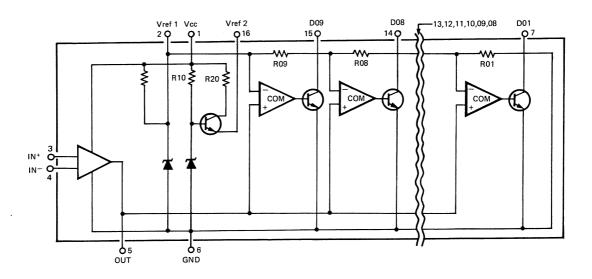
PRE SCALAR IC TD6104P SIGNAL FLOW



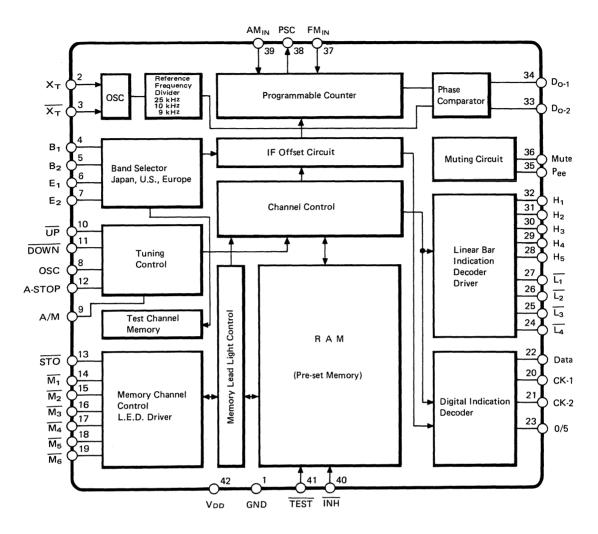
L.E.D. LEVEL METER IC LB1416 SIGNAL FLOW



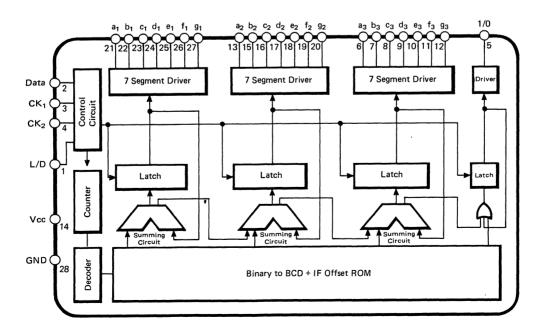
L.E.D. LEVEL METER IC LB1409 SIGNAL FLOW



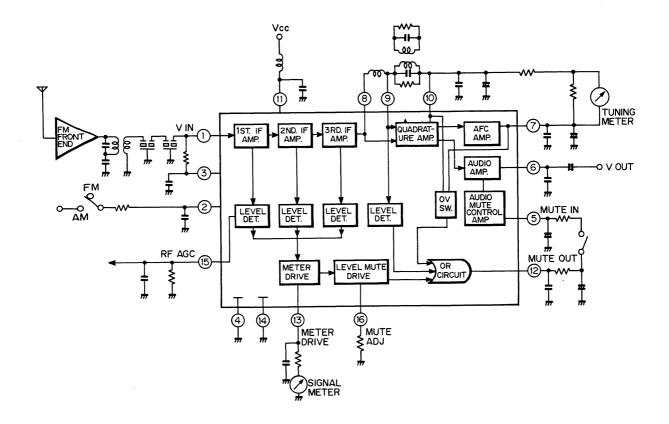
PLL CONTROL IC TC9137P SIGNAL FLOW



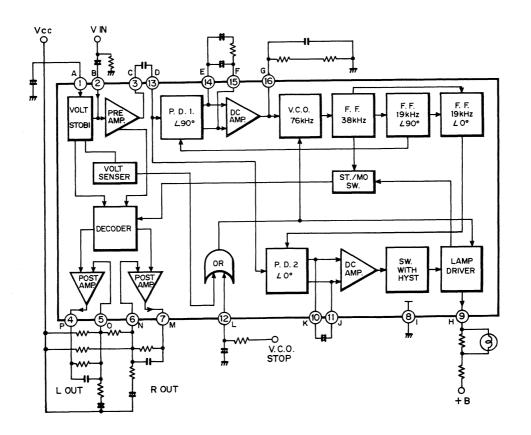
STATIC DRIVER IC TD6301P SIGNAL FLOW



FM IF IC HA11225 SIGNAL FLOW

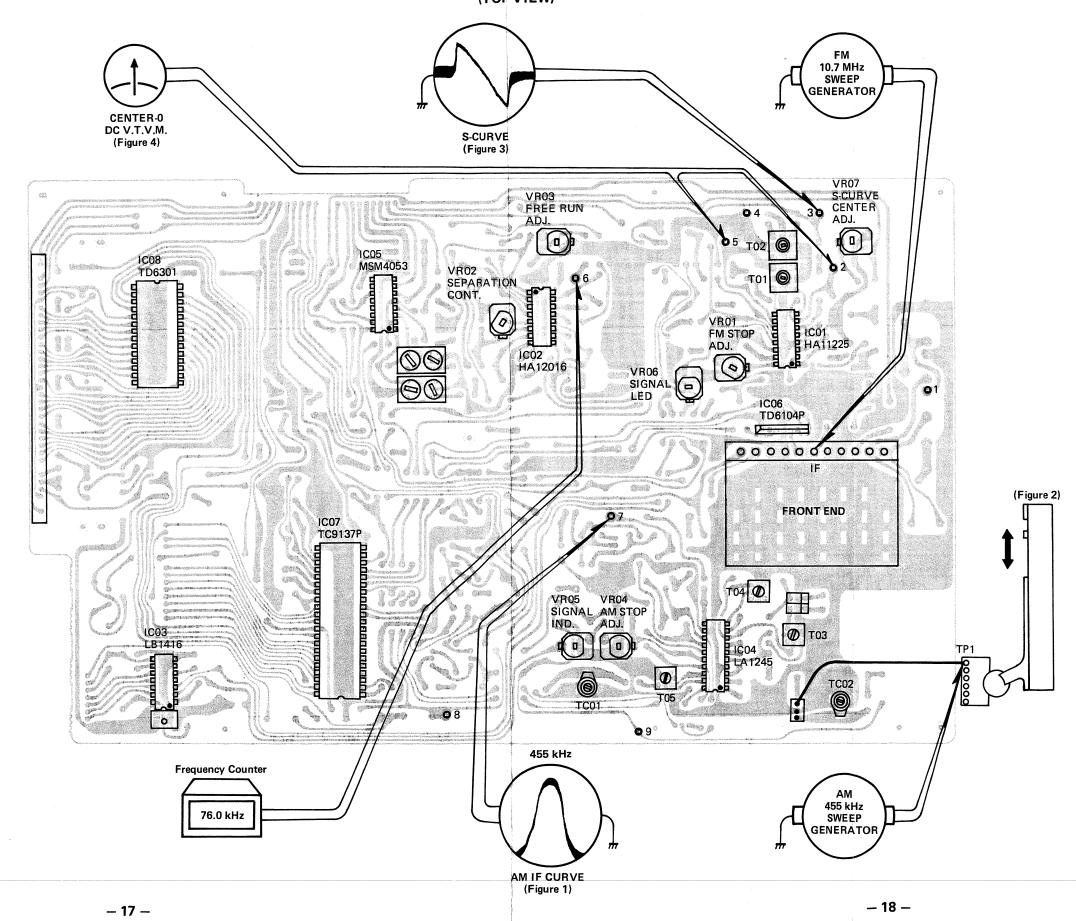


FM MPX IC HA12016 SIGNAL FLOW

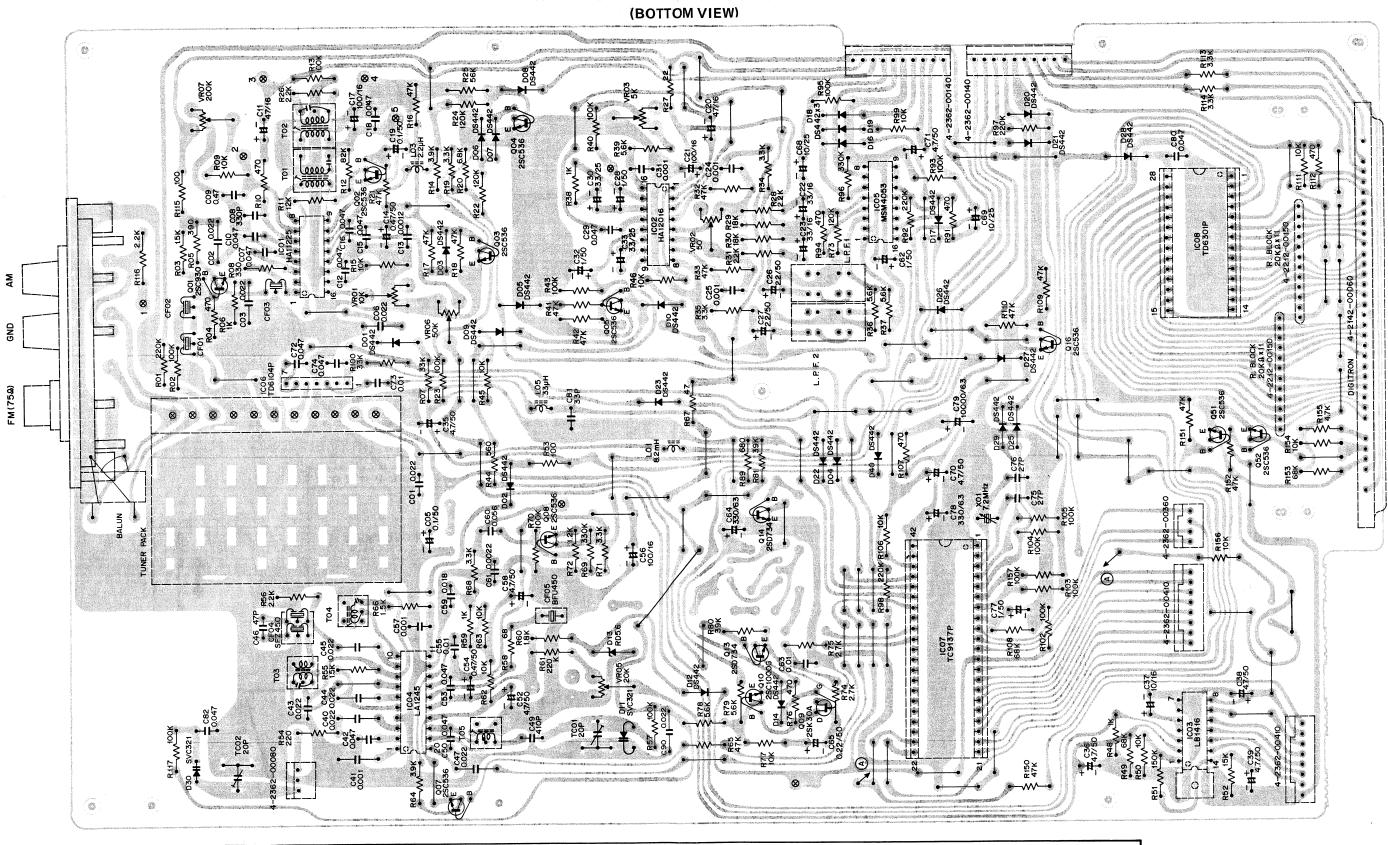


RF CONTROL P.C.BOARD LAYOUT

WITH OSCILLOSCOPE TIME BASE SETTINGS (TOP VIEW)



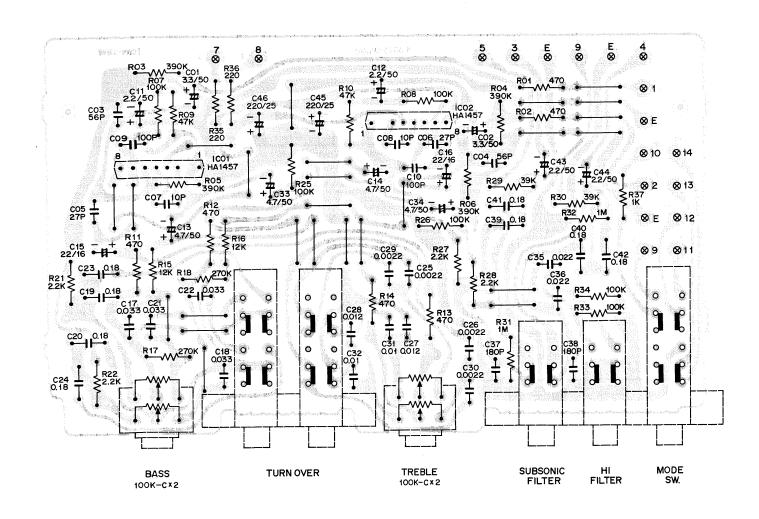
RF CONTROL P.C.BOARD



	RF CONTROL P.C.B. IC PIN NUMBERS VOLTAGES																				
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC01	HA11225	2.0V	2.0V	2.0V	0V	0V	5.4V	5.6V	5.7V	5.7V	5.7V	13.6V	3.4V	0V	0V	4.8V	3.6V		_		
IC02	HA12016	13.2V	3.8V	5.5V	6.6V	11.4V	11.4V	6.7V	0V	4.8V	2.5V	2.5V	11.3V	2.5V	2.5V	2.5V	0∨			_	
IC04	LA1245	5.7V	2.2V	2.8V	0V	11.0V	2.1V	11.8V	11.8V	2.9V	8.7V	0.7V	0V	2.2V	12.8V	1.7V	0∨	2.2V	5.7V	5.7V	3.0V

TONE AMP P.C.BOARD

(BOTTOM VIEW)

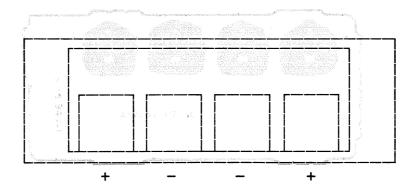


TONE AMP P.C.B. IC PIN NUMBERS VOLTAGES										
SYMBOL No. DEVICE 1 2 3 4 5 6 7 8										
IC01,02	HA1457	-0.2V		-0.3V	-22V	-21V	-0.2V	-0.3V	23.2V	

	RF CONTROL P.C.B. TRANSISTOR DC VOLTAGES													
TO SAMPOL NO DEVICE R C E SYMBOL NO DEVICE												В	С	E
SYMBOL No.	2SC930	3.1V	11.8V	2.4V	Ω07	2SC536	OV	2.2V	2.2V	Q10	2SC1000	0.7V	14.3V	0V
Q01	2SC536	1.5V	5.6V	5.7V	Ω08	2SC536	1.8V	9.5V	1.2V	Q12	2SC1000	0.6V	26.4V	0∨
Q02		0.7V	0V	0V	400		G	D	S	Q13	2SD734	0.7V	0V	0V
Ω03	2SC536		4.0V	OV	Q09	2SK30A	0.9V	3.5V	0.7V	Q14	2SD734	0.6V	0V	0V
Q04	2SC536	0V					0.2V	3.5V	0.6V					
Q05	2SC536	0V	11.3V	0V	Q11	2SK30A	0.20	3.5 V	0.6 V	<u> </u>		L		

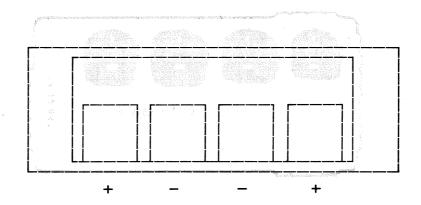
SP TERMINAL 1 P.C.BOARD

(BOTTOM VIEW)



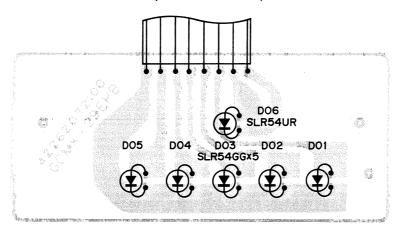
SP TERMINAL 2 P.C.BOARD

(BOTTOM VIEW)



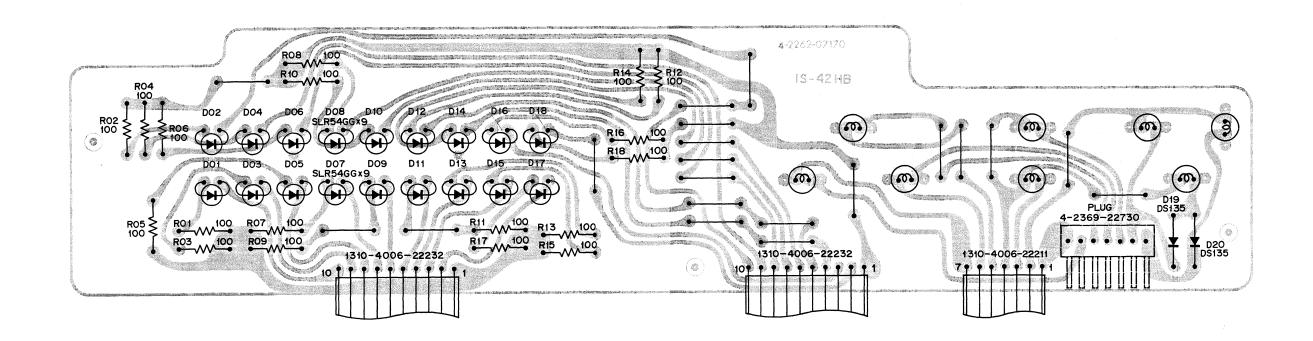
SIGNAL P.C.BOARD

(BOTTOM VIEW)

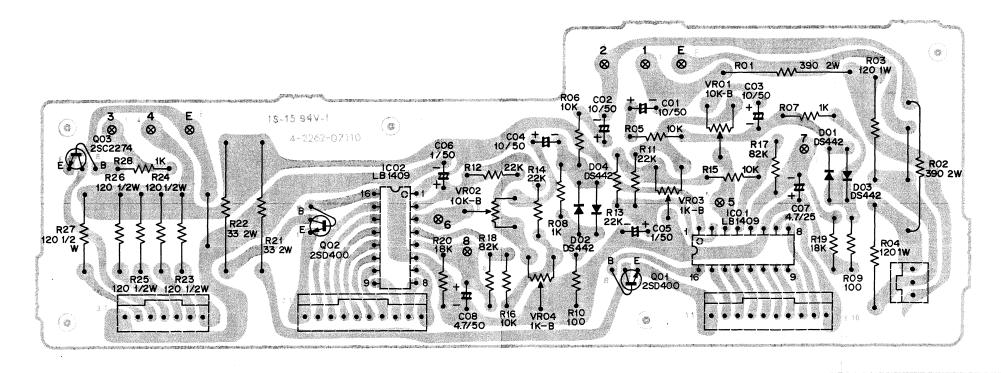


L.E.D. LAMP P.C.BOARD

(BOTTOM VIEW)

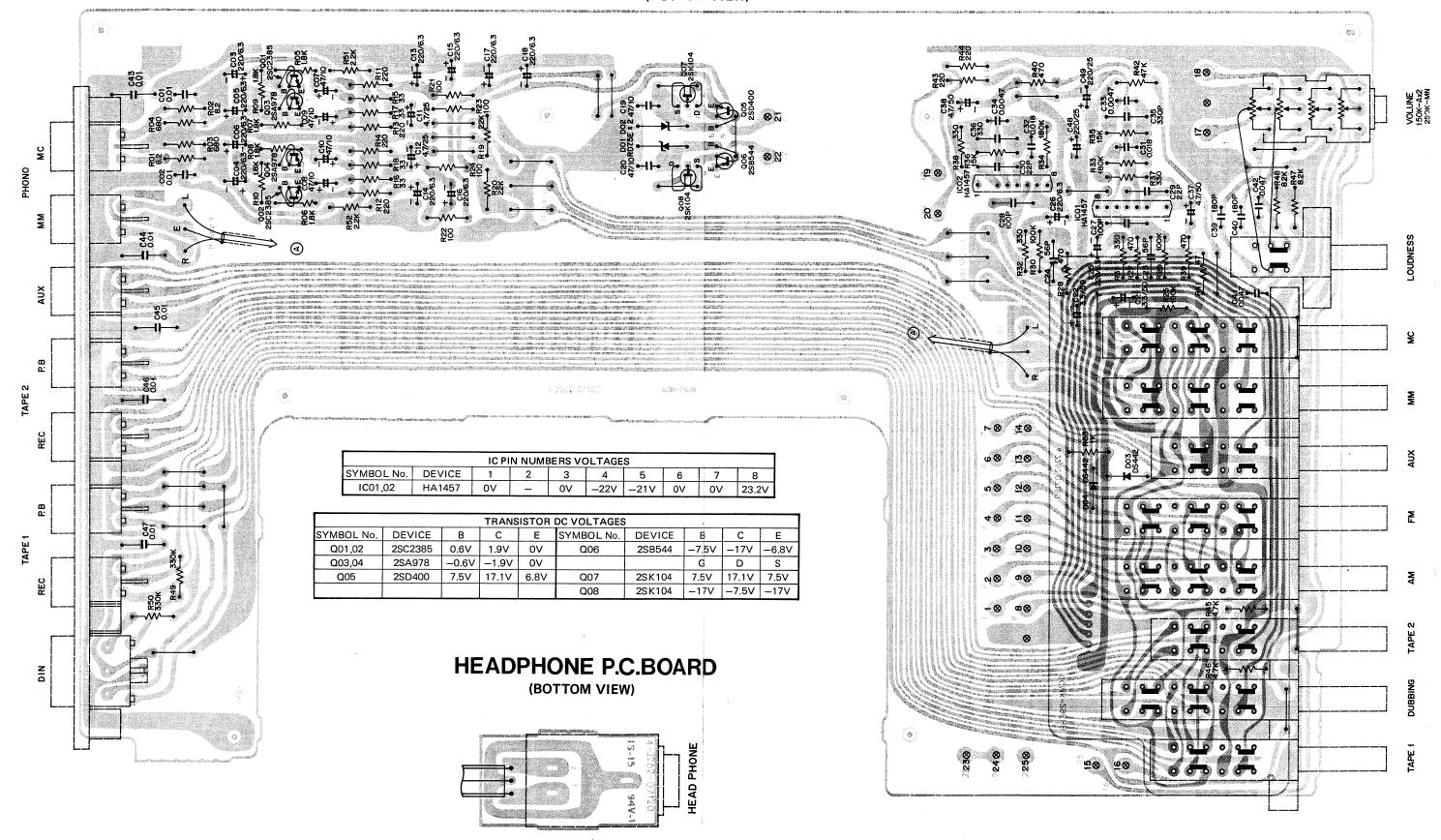


L.E.D. DRIVE P.C.BOARD (BOTTOM VIEW)

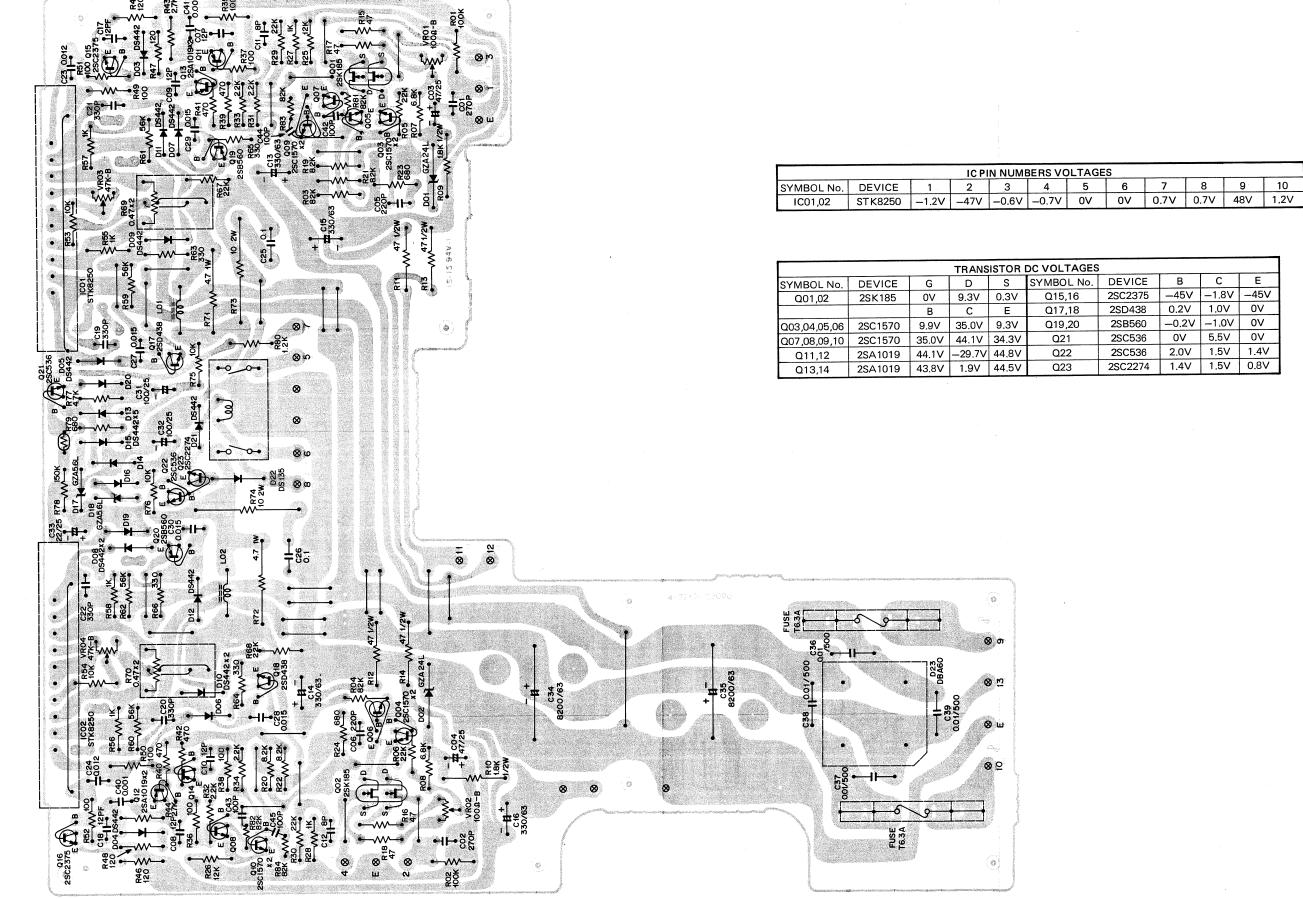


PHONO EQ P.C.BOARD

(BOTTOM VIEW)



POWER AMP P.C.BOARD (BOTTOM VIEW)



2SC2375

2SD438

2SB560

2SC536

2SC536

Q22

-45V

0.2V

-0.2V

0V

2.0V

2SC2274 1.4V 1.5V 0.8V

-1.8V -45V

1.0V 0V

-1.0V 0V

5.5V 0V

1.5V 1.4V

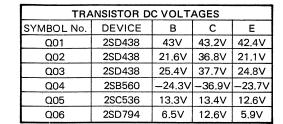
POWER SUPPLY P.C.BOARD

(BOTTOM VIEW)

0 0

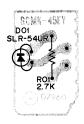
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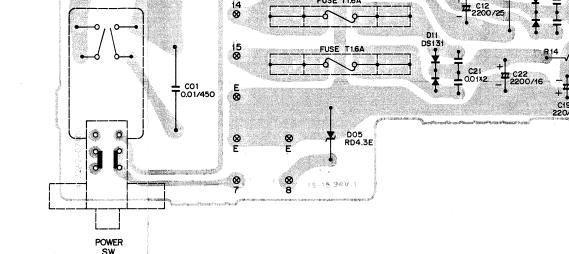
0 0



POWER IND. P.C.BOARD

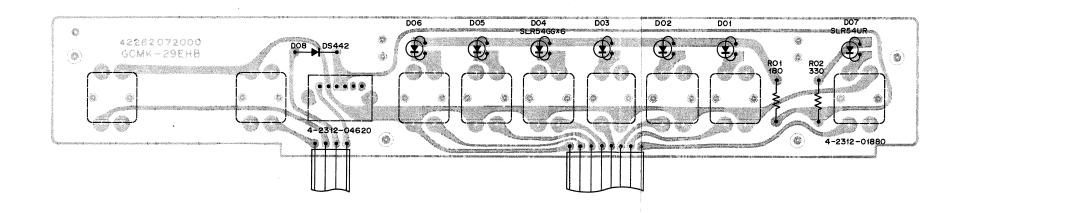
(BOTTOM VIEW)





SWITCH P.C.BOARD

(BOTTOM VIEW)



PARTS LIST

RF CONTROL P.C.B. Assy 131 0 4001 05731

Ref. No	. Parts Number	Description	Ref. No.	Parts Number	Description
	4 1252 00250	Tuner Pack (Component parts used		CAPACITORS	
TC01.0	4 2252 00080	Resistor 20k×11 ±10% 7.2 MHz Crystal	C38,39 C40 C41 C42 C43,44	C1CCZN223YPA C1HCZK102BPA C1HYYZ473APA	Electrolytic $4.7 \mu\text{F}\ 50\text{V}$ Ceramic $0.022 \mu\text{F}\ 16\text{V}\ \pm 30\%$ Ceramic $1000 \text{pF}\ 50\text{V}\ \pm 10\%$ Ceramic $0.047 \mu\text{F}\ 50\text{V}\ + 80,20\%$ Ceramic $0.022 \mu\text{F}\ 50\text{V}\ + 80,20\%$
TC01,01 T01 T02 T03 T04 T05	4 2562 00291 4 2562 00301 4 2562 00320 4 2562 00330 4 2582 00300	FM IFT FM IFT AM IFT AM IFT AM OSC Coil Antenna Terminal 3P AF Filter	45 C46 C47 C49 C50 C52 C53 C54 C55	C1CCZN223YPA C1HSEJ411A C1HYYZ473APA C1HRY-475APA C1HYYZ473APA C1HRY-474APA	Ceramic 47 pF 50V $\pm 10\%$ Ceramic 0.022 μ F 16V $\pm 30\%$ Styrol 410 pF 50V $\pm 5\%$ Ceramic 0.047 μ F 50V $+ 80, -20\%$ Electrolytic 4.7 μ F 50V $+ 80, -20\%$ Electrolytic 0.47 μ F 50V $+ 80, -20\%$ Electrolytic 0.47 μ F 50V $+ 80, -20\%$ Mylar 0.01 μ F 50V $\pm 10\%$
L01 L03 L05 CF01,0	4 2532 00200 4 2532 00012 4 2532 00210	Choke Coil 8.2 mH Choke Coil 2.2 µH Choke Coil 33 µH Ceramic Filter	C56 C57 C58 C59	C1CRE-107A C1HYYZ102APA C1HRY-475APA C1HFYK183APA	Electrolytic 100 µF 16V Ceramic 0.001 µF 50V +80,—20% Electrolytic 4.7 µF 50V Mylar 0.018 µF 50V ±10% Mylar 0.056 µF 50V ±10%
CF04 CF05 VR01 VR02 VR03 VR05 VR06 VR07		VR 50k-B VR 5k-B VR 20k-B VR 50k-B	C61 C62 C63 C64 C65 C68,69 C70,71	C1HFYK222APA C1HRY-105APA C1HFYK103APA C0JRE-337A C1HRY-224LPA C1ERY-106APA C1HRY-475APA	Mylar 0.0022 μF 50V ±10% Electrolytic 1 μF 50V Mylar 0.01 μF 50V ±10%
	CAPACITORS		C73	C1HYYZ103APA	Ceramic 0.01 µF 50V +80,-20%
C01 C02,03 C05 C06 C07 C08 C09 C10	C1HYYZ223APA C1CCZN223YPA C1HRY-104LPA C1CCZN223YPA C1HYYZ473APA C1HYDK331R C1HRY-474APA C1HYYZ473APA	Ceramic $0.022\mu\text{F}$ $16V\pm30\%$ Ceramic $0.047\mu\text{F}$ $50V\pm80,-20\%$ Ceramic 330pF $50V\pm10\%$ Electrolytic $0.47\mu\text{F}$ $50V$ Ceramic $0.047\mu\text{F}$ $50V\pm80,-20\%$	C77 C78 C79 C80 C81 C82	C1HCDJ270CH C1HRY-105LPA C0JRE-337A 4 2232 00510 C1HYYZ473APA C1HCYK330APA C1HFYK473APA	Electrolytic 1 µF 50V
C11 C12	C1HYYZ473APA	Electrolytic 47 μF 16V Ceramic 0.047 μF 50V +80,-20%		SEMICONDUCTO	
C13 C14	C1HYDK122R C1HRY-474APA	Ceramic 0.0012 μ F 50V ±10% Electrolytic 0.47 μ F 50V	D01,02 03,04	205 5 9040 44210	
C15,16 C17 C18	C1HYYZ473APA C1CRY-107APA	Ceramic 0.047 μ F 50V +80,—20% Electrolytic 100 μ F 16V Ceramic 0.047 μ F 50V +80,—20%	05,04 05,06 07,08 09,10	Diode D30 (SVC3 have the equivalent	
C19 C20 C21 C22,23 C24,25 C26,27	C1HFYK102APA	Electrolytic $0.1 \mu F 50V$ Electrolytic $47 \mu F 16V$ Electrolytic $100 \mu F 16V$ Electrolytic $33 \mu F 16V$ Mylar $0.001 \mu F 50V \pm 10\%$ Electrolytic $2.2 \mu F 50V$ Electrolytic $1 \mu F 50V$	D11 D12 D13 D14,16 17,18, 21,22,2 26,27,3	205 5 9040 44210 DNN-RD5R6EB2 205 5 9040 44210 19,20 23,25	Diode, RD5.6EB2
C29 C30 C31 C32 C33 C35,36	C1HFYK473APA C1ERY-335LPA C1HFYK102APA C1HRY-105APA C1ERY-335LPA C1HRY-475APA	Mylar $0.047 \mu F 50V \pm 10\%$ Electrolytic $3.3 \mu F 25V$	D30 D40 IC01 IC02 IC03 IC04	202 5 1220 32113 205 5 9040 44210 IKK-HA11225 IKK-HA12016 206 5 2341 41610 206 5 0191 24510	IC, HA11225 IC, HA12016 IC, LB1416 IC, LA1245
C37	C1CRY-106APA		1C05 31 —	IPP-MSM4053RS	10, IVIOIVI4000A

Ref. No.	Parts Number	Descripti	on		•	Ref. No.	Parts Number	Descripti	on		
110111111	SEMICONDUCTO	RS					RESISTORS				
1C06	ITT-TD-6104P	ns IC,TD61	04P			R53	R2EDPJ101A	Carbon	100	1/4W	±5%
IC00	ITT-TC9137P	IC, TC91				R54	R2EDZJ221APA	Carbon	220	1/4W	±5%
IC07	ITT-TD6301P	IC, TD63				R55	R2EDZJ152APA	Carbon	1.5k	1/4W	±5%
Q01	203 5 5500 93050					R56	R2EDZJ222APA	Carbon	2.2k	1/4W	±5%
Q02,03	203 5 5000 53650					R57	R2EDZJ104APA	Carbon	100k	1/4W	±5%
04,05	200 0 000 0					R58	R2EDZJ680APA	Carbon	68	1/4W	±5%
07,08						R59	R2EDZJ102APA	Carbon	1k	1/4W	±5%
Q09	TTT-2SK30A-O	TR 2SK3				R60	R2EDZJ182APA	Carbon	1.8k	1/4W	±5%
Q10	TTT-2SC1000GBL					R61	R2EDZJ224APA	Carbon	220k	1/4W	±5%
Q13	203 5 4570 73452	TR 2SD7	734 E, F			R62,63	R2EDZJ103APA	Carbon	10k	1/4W	±5%
Q16,51	203 5 5000 53650	TR 2SC5	36 E, F			R64	R2EDZJ392APA	Carbon	3.9k	1/4W	±5%
52						R65	R2EDZJ473APA	Carbon	47k	1/4W	±5%
						R66	R2EDZJ152APA	Carbon	1.5k	1/4W	±5%
	RESISTORS					R67	R2EDPJ470A	Carbon	47	1/4W	±5%
R01	R2EDZJ224APA	Carbon	220k	1/4W	±5%	R68	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%
R02	R2EDZJ104APA	Carbon	100k	1/4W	±5%	R69	R2EDZJ334APA	Carbon	330k	1/4W	±5%
R03	R2EDZJ152APA	Carbon	1.5k	1/4W	±5%	R70	R2EDZJ104APA	Carbon	100k	1/4W	±5% ±5%
R04	R2EDZJ471 APA	Carbon	470	1/4W	±5%	R71 R72	R2EDZJ332APA R2EDZJ122APA	Carbon Carbon	3.3k 1.2k	1/4W 1/4W	±5%
R05	R2EDZJ391APA	Carbon	390	1/4W	±5%	R73	R2EDZJ124APA	Carbon		1/4W	±5%
R06	R2EDZJ102APA	Carbon	1k	1/4W	±5%	R74,75	R2EDZJ272APA	Carbon	120k 2.7k	1/4W	±5%
R07	R2EDZJ333APA	Carbon	33k	1/4W	±5%	R74,75	R2EDZJ471APA	Carbon	470	1/4W	±5%
R08	R2EDZJ331APA	Carbon	330	1/4W	±5%	R77	R2EDZJ103APA	Carbon	10k	1/4W	±5%
R09	R2EDZJ103APA	Carbon	10k	1/4W	±5%	R78,79	R2EDZJ562APA	Carbon	5.6k	1/4W	±5%
R10	R2EDZJ471 APA	Carbon	470	1/4W	±5%	R80,81	R2EDZJ393APA	Carbon	39k	1/4W	±5%
R11	R2EDZJ123APA	Carbon	12k	1/4W	±5%	R89	R2EDZJ681APA	Carbon	680	1/4W	±5%
R12	R2EDZJ823APA	Carbon	82k	1/4W	±5%	R91	R2EDZJ471APA	Carbon	470	1/4W	±5%
R13	R2EDZJ104APA	Carbon	100k	1/4W	±5%	R92	R2EDZJ224APA	Carbon	220k	1/4W	±5%
R14	R2EDZJ392APA	Carbon	3.9k	1/4W	±5%	R93	R2EDZJ104APA	Carbon	100k	1/4W	±5%
R15	R2EDZJ103APA	Carbon	10k	1/4W	±5%	R94	R2EDZJ471APA	Carbon	470	1/4W	±5%
R16,17	R2EDZJ473APA	Carbon	47k	1/4W	±5%	R95	R2EDZJ104APA	Carbon	100k	1/4W	±5%
18 P10	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%	R96	R2EDZJ334APA	Carbon	330k	1/4W	±5%
R19 R20	R2EDZJ682APA	Carbon	6.8k	1/4W	±5%	R97,98	R2EDZJ224APA	Carbon	220k	1/4W	±5%
R21	R2EDZJ473APA	Carbon	47k	1/4W	±5%	R99	R2EDZJ103APA	Carbon	10k	1/4W	±5%
R22	R2EDZJ124APA	Carbon	120k	1/4W	±5%	R100	R2EDZJ333APA 3 R2EDZJ104APA	Carbon Carbon	33k 100k	1/4W 1/4W	±5% ±5%
R23	R2EDZJ104APA	Carbon	100k	1/4W	±5%	104,10		Carbon	TOOK	1/400	10%
R24	R2EDZJ124APA	Carbon	120k	1/4W	±5%	R106	R2EDZJ103APA	Carbon	10k	1/4W	±5%
R25	R2EDZJ563APA	Carbon	56k	1/4W	±5%	R107	R2EDZJ471APA	Carbon	470	1/4W	±5%
R26	R2EDZJ222APA	Carbon	2.2k	1/4W	±5%	R108	R2EDZJ683APA	Carbon	68k	1/4W	±5%
R27	R2EDPJ220A	Carbon	22	1/4W	±5%		R2EDZJ473APA	Carbon	47k	1/4W	±5%
R28	R2EDZJ222APA	Carbon	2.2k	1/4W	±5%	R111	R2EDZJ103APA	Carbon	10k	1/4W	±5%
R29,30	R2EDZJ183APA	Carbon	18k	1/4W	±5%	R112	R2EDZJ471APA	Carbon	470	1/4W	±5%
R31	R2EDZJ222APA	Carbon	2.2k	1/4W	±5%	R113,114	4 R2EDZJ332APA	Carbon	3.3k	1/4W	±5%
R32,33	R2EDZJ473APA	Carbon	47k	1/4W	±5%	R115	R2EDPJ101A	Carbon	100	1/4W	±5%
R34,35	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%	R116	R2HXBJ222A	Oxide M	etal Film	2.2k 1/	/2W ±5%
R36,37	R2EDZJ562APA	Carbon Carbon	5.6k	1/4W	±5% ±5%	R117	R2EDZJ104APA		100k	1/4W	±5%
R38	R2EDZJ102APA R2EDZJ562APA	Carbon	1k 5.6k	1/4W 1/4W	±5%	R150	R2EDZJ154APA	Carbon	150k	1/4W	±5%
R39	R2EDZJ104APA	Carbon	100k	1/4W	±5%	R151	R2EDZJ473APA	Carbon	47k	1/4W	±5%
R40 R41,42	R2EDZJ473APA	Carbon	47k	1/4W	±5%	R152	R2EDZJ104APA	Carbon	100k	1/4W	±5%
R43	R2EDZJ104APA	Carbon	100k	1/4W	±5%	R153	R2EDZJ682APA	Carbon	6.8k	1/4W	±5%
R44	R2EDZJ561APA	Carbon	560	1/4W	±5%	R154	R2EDZJ103APA	Carbon	10k	1/4W	±5%
R45,46	R2EDZJ103APA	Carbon	10k	1/4W	±5%	R155	R2EDZJ472APA	Carbon	4.7k	1/4W	±5%
R48	R2EDZJ102APA	Carbon	1k	1/4W	±5%	R156	R2EDZJ103APA	Carbon	10k	1/4W	±5% +5%
R49	R2EDZJ683APA	Carbon	68k	1/4W	±5%	R157	R2EDZJ104APA	Carbon	100k	1/4W	±5%
R50	R2EDZJ103APA	Carbon	10k	1/4W	±5%						
R51	R2EDZJ154APA	Carbon	150k	1/4W	±5%						
R52	R2EDZJ153APA	Carbon	15k	1/4W	±5%						
						00					

SWITCH P.C.B. Assy 131 0 4001 05740

					Dinstan				
Ref. No.	Parts Number	Description	Ret. No.	Parts Number Description					
	4 2312 04620	Key Board Switch Switch Push 1Key	C33	CAPACITORS C1ERE-226A	Electrolytic 22				
	131 26113 39400	Shelter	C34,35 C36,37	4 2232 00580 C2HYDP103A	Electrolytic 8200 Ceramic 0.01 µF				
	SEMICON DUCTO	RS	38,39						
03,04	DYY-SLR-54GG	Diode, SLR-54GG (LED)	C40,41 C42,43 44,45	C1HFYK102APA C1HCDK101A	Mylar 0.001 µf Ceramic 100 pf				
05,06	DVV-SI R-54UR	Diode, SLR-54UR (LED)	77,70						
D07 D08	205 5 9040 44210	Diode, DS-442		SEMICONDUCTO					
200			D01,02	202 5 3210 24010 205 5 9040 44210	Diode, GZA 24L	•			
	RESISTORS	0 1 100 1/00 +50/	D03,04 05,06	205 5 9040 44210	Diode, D3-442				
R01	R2EDPJ181A R2EDPJ331A	Carbon 180 1/4W ±5% Carbon 330 1/4W ±5%	07,08						
R02	KZEDF3551A	Carbon Soo 17 IVV = 570	09,10						
			11,12 13,14						
	P.C.B. Assy		15,16						
131 0 400	01 05750		D17,18	202 5 3210 05610		L			
Ref. No.	Parts Number	Description	D19,20	205 5 9040 44210	Diode, DS-442				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SEMICON DUCTO	ORS	21 D22	202 5 2470 13540	Diode, DS-135				
D01,02		Diode, SLR-54GG (LED)	D23	202 5 2750 06015	Diode, DBA-600	C-K15			
03,04	D11 0211 0 1 1 1	,	IC01,02	206 5 4368 25010	IC, STK8250				
05		D: 1 01 D E (112 (1 ED)		TVV-2SK185 203 5 5251 57070	TR 2SK185 (Du				
D06	DYY-SLR-54UR	Diode, SLR-54UR (LED)	Q03,04 05,06	203 3 3231 37070	71172301370 0,	' '			
			07,08						
POWER	AMP P.C.B. Assy		09,10	200 5 6704 04060	TD 20041010 E	<u></u>			
131 0 40	01 05641		13,14	203 5 6731 01960	I IR ZSATUT9 F,	G			
Ref No	Parts Number	Description	Q15,16	203 5 6722 37560					
VR01,02				203 5 6830 43850					
VR03,04		VR 47k-B		203 5 6840 56050 203 5 5000 53660					
	4 2322 00090		023	203 5 7252 27450					
<u>A</u>	4 2349 21570 4 2532 00180) Huse I b.3 A I RE Filter							
L01,02	HLL-PTH487A-B	F Posistor		RESISTORS					
			R01,02	R2EDZJ104APA		1/4\\			
	CAPACITORS	•	R03,04 R05,06	R2EDZJ823APA R2EDZJ223APA		1/4W 1/4W			
C01,02		Ceramic 270 pF 50V ±10%	R07,08	R2EDZJ682APA		1/40			
C03	C1ERE-476A C1ERY-476APA	Electrolytic $47 \mu F$ 25V Electrolytic $47 \mu F$ 25V	R09,10	R2HZBJ182A	Oxide Metal Film				
C04 C05,06	C1HCYK221APA		R11,12 13,14	R2HZPK470A	Fuse 47	1/2W	/ ±10%		
C07,08	C1HCDJ120SL	Ceramic 12 pF 50V ±5%	R15,16	R2EDZJ470APA	Carbon 47	1/4\	/ ±5%		
09,10	0411022200001	Ceramic 8 pF 50V ±0.5%	17,18						
C11,12 C13,14	C1HCDD080SL C1JRE-337A	Electrolytic 330 μ F 63V	R19,20	R2EDZJ822APA	Carbon 8.2k	1/4W	/ ±5%		
15,16	C TOTAL GOVY		21,22 R23,24	R2EDZJ681APA	Carbon 680	1/4W	/ ±5%		
C17,18	C1HCDJ120SL	Ceramic 12 pF 50V ±5%	R25,26	R2EDZJ123APA		1/40			
C19,20	C1HCDK331SL C1HCYK331APA	Ceramic 330 pF 50V ±10% Ceramic 330 pF 50V ±10%	R27,28	R2EDZJ102APA		1/4\			
C21 C22	C1HC1K331ALA	Ceramic 330 pF 50V ±10%	R29,30	R2EEZJ223APA		1/4W			
C23,24	C1HFYK123APA	Mylar 0.012 µF 50V ±10%	R31,32 33,34	R2EDZJ222APA	Carbon 2.2k	1/4W	1 1070		
C25,26	C1HFRK104A	Mylar 0.1 μF 50V ±10%	R35,36	R2EDZJ101APA	Carbon 100	1/4\	/ ±5%		
C27,28	C1HFYK153APA C1HFRK153A	A Mylar 0.015 μF 50V ±10% Mylar 0.015 μF 50V ±10%	37,38		0	A 1 41 4			
C29 C30	C1HFYK153APA	A Mylar 0.015 µF 50V ±10%	R39,40 41,42	R2EDZJ471APA	Carbon 470	1/4W	/ ±5%		
C31,32		E	3 -						

CAPACITIONS CAPACITIONS	F	Ref. No.	Parts Number	Descripti	on			Ref. No.	Parts Number	Description	
R45.66 R2EDZJ121APA Carbon 120 1/4W ±5% C24 C1CRY-107APA Electrolytic 100			CAPACITORS						CAPACITORS		
R4500 R2EDZJ101APA Carbon 100 1/4W ±5% C27,8 C27,8 C17,87+227AP Electrolytic 220 µ F 50V	F	345,46	R2EDZJ272APA R2EDZJ121APA	Carbon Carbon		•		C23	C1CRE-477A	Electrolytic 470	μF 16V
R85,56 R2EDZJ103APA Carbon 10k 1/4W ±5% C31.32 C1FRY-107APA Electrolytic 200 \(\top \) F 59V R55,65 R57,68 R89,60 G1,62 R89,60 R89,60 R2EDZJ2331APA Carbon 330 1/4W ±5% D01,02 202 5 2470 13340 Diode, R05-6BE2 Diode, R05-6		349,50	R2EDZJ101APA	Carbon	100	1/4W	±5%	C26 C27,28	C1ARY-227APA	Electrolytic 220 Electrolytic 100	μF 10V μF 50V
SEMICOMPOTORIST SEMICOMPOTORIST		R53,54 R55,56	R2EDZJ103APA R2EDZJ102APA	Carbon Carbon							
R83,84 R2EDZJ331APA Carbon 330 1/4W ±5% D03 DNN-RDSR6EB2 Diode, RDS.6EB2 Diode, RDS.7 RDS.74 RD	F	359,60	R2EDZJ563APA	Carbon	56k	1/4W	±5%				
R867 R86 R96 R	F	363,64	R2EDZJ331APA	Carbon	330	1/4W	±5%	D03	DNN-RD5R6EB2	Diode, RD5.6EB2	2
R75 R2EDZJ472APA Carbon 4.7k 1/4W ±5% D12 202 5 3220 06220 Diode, GZA6.2U	F	R67,68 R69,70 R71,72	4 2212 00050 R3AXBJ4R7A R3DXBJ100A	Cement Oxide Me Oxide Me	0.47 etal Film etal Film	5W×2 4.7 1W 10 2W	±10% ±5% ±5%	D05 D06 2 D07 2 D08	DNN-RD4R3EB1 202 5 2300 017101 202 5 2300 018101	Diode, RD4.3EB1 Diode, DS-17 Diode, DS-18	1
POWER SUPPLY P.C.B. Assy 131 0 4001 05652	} 	R77 R78 R79 R80 R81,82	R2EDZJ472APA R2EDZJ154APA R2EDZJ681APA R2EDZJ122APA	Carbon Carbon Carbon Carbon	4.7k 150k 680 1.2k	1/4W 1/4W 1/4W 1/4W	±5% ±5% ±5% ±5%	D11 2 D12 D13,14 IC01 IC02	202 5 2320 131101 202 5 3210 06220 205 5 9040 44210 ITT-TA78L024AP IAA-FS-7812M	Diode, DS131 Diode, GZA6.2U Diode, DS-442 IC, TA78L024AP IC, FS-7812M	
Δ 4 2312 01400 Switch Push Power 4 2312 04700 Switch Slide 4-2 R02 R2EDZJ102APA Carbon 1,7 1/4W ±5% Δ 4 2349 20240 Fuse T 1.6 A R03 R2EDZJ103APA Carbon 10k 1/4W ±5% Δ 2349 20310 Fuse T 500 mA R04 R2EDZJ21APA Carbon 10k 1/4W ±5% R04 R2EDZJ21APA Carbon 10k 1/4W ±5% R05 R2HXBJ391A Oxide Metal Film 390 1/2W ±5% R06 R2EDZJ27APA Carbon 2.7 k 1/4W ±5% R06 R2EDZJ27APA Carbon 10k 1/4W ±5% R07 R2HZPK2R2A Fuse 2.2 1/2W ±10% R07 R2HZPK2R2A Fuse 2.2 1/2W ±10% R08 R2EDZJ101APA Carbon 10k 1/4W ±5% R07 R2HZPK2R2A Fuse 2.2 1/2W ±10% R08 R2EDZJ101APA Carbon 10k 1/4W ±5% R06 R2EDZJ27APA Carbon 2.7 k 1/4W ±5% R07 R2HZPK2R2A Fuse 2.2 1/2W ±10% R08 R2EDZJ101APA Carbon 10k 1/4W ±5% R09 R2HXBJ561A Oxide Metal Film 560 1/2W ±5% R0		POWER		у				03 Q04 Q05	203 5 6840 56050 203 5 5000 53660	TR 2SB560 E, F TR 2SC536 F, G	
4 2312 04700 Switch Slide 4-2											
CAPACITORS C1 Δ 4 2232 00550 Oil 0.01 μF 450V R08 R2EDZJ101APA Carbon 100 1/4W ±5% C1VRE-107A Electrolytic 100 μF 35V R10 R2EDPJ2R2A Carbon 2.2 1/4W ±5% C1HRF-337A Electrolytic 330 μF 50V R11 R2EDZJ101APA Carbon 100 1/4W ±5% C1HRY-476APA Electrolytic 47 μF 50V R11 R2EDZJ101APA Carbon 100 1/4W ±5% C1HRY-476APA Electrolytic 47 μF 50V R12 R2EDZJ102APA Carbon 100 1/4W ±5% C1HRY-476APA Electrolytic 20 μF 50V R13 R2EDZJ101APA Carbon 100 1/4W ±5% C1HRY-2473A Ceramic 0.047 μF 50V +80,—20% R13 R2EDZJ101APA Carbon 110 1/4W ±5% C1HRE-227A Electrolytic 220 μF 35V R14 R2HZPKR47A Fuse 0.47 1/2W ±10% C1HRE-227A Electrolytic 220 μF 50V R15 R2EDZJ102APA Carbon 560 1/4W ±5% C1HFYK102APA Mylar 0.001 μF 50V ±10% R17,18 R2HZPK471A Fuse 0.47 1/2W ±10% C1 ERE-227A Electrolytic 220 μF 25V R16 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 110 1/4W ±5% C1 ERE-227A Ele		Ref. No.	Parts Number	Descripti	ion				RESISTORS		
C02 C1VRE-107A Electrolytic 100 μF 35V R09 R2HXBJ561A Oxide Metal Film 560 1/2W ±55 C1HRF-337A Electrolytic 330 μF 50V R11 R2EDZJ101APA Carbon 100 1/4W ±5% C05 C1HRY-476APA Electrolytic 47 μF 50V R12 R2EDZJ102APA Carbon 1 1/4W ±5% C06 C1HYDZ473A Ceramic 0.047 μF 50V R13 R2EDZJ471APA Carbon 470 1/4W ±5% C07 C1VRE-227A Electrolytic 220 μF 35V R14 R2EDZJ561APA Carbon 560 1/4W ±5% C16 C1HFYK102APA Mylar 0.001 μF 50V ±10% R15 R2EDZJ102APA Carbon 560 1/4W ±5% C11 4 2232 00430 Ceramic 0.01 μFx2 250V R16 R2EDZJ102APA Carbon 1 1/4W ±5% C12 C1ERE-227A Electrolytic 220 μF 25V R16 R2EDZJ102APA Carbon 1 1/4W ±5% C12 C1ERE-227A Electrolytic 220 μF 25V R16 R2EDZJ102APA Carbon 1 1/4W ±5% C13 C1ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 1 1/4W ±5% C14 C1HYDZ473A Ceramic 0.01 μFx2 250V R19,20 R2EDZJ102APA Carbon 1 1/4W ±5% C16 C1ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 1 1/4W ±5% C16 C1ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 1 1/4W ±5% C16 C1ERE-227A Electrolytic 220 μF 25V R19,20 R2EDZJ102APA Carbon 1 1/4W ±5% C16 C1ERE-227A Electrolytic 220 μF 25V R13 0 4001 05661 LED. DRIVE P.C.B. Assy 131 0 4001 05661 LED.		∆	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310	Switch P Switch S Fuse T 1 Fuse T 5	ush Pow lide 4-2 .6 A 00 mA	er		R02 R03 R04 R05	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A	Carbon 1k Carbon 10k Carbon 220 Oxide Metal Film	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5%
C04 C1HRF-337A Electrolytic 330 μF 50V R11 R2EDZJ101APA Carbon 100 1/4W ±5% C1HRY-476APA Electrolytic 47 μF 50V R12 R2EDZJ102APA Carbon 1k 1/4W ±5% C1HYDZ473A Ceramic 0.047 μF 50V +80,—20% R13 R2EDZJ471APA Carbon 470 1/4W ±5% C1VRE-227A Electrolytic 220 μF 35V R14 R2HZPKR47A Fuse 0.47 1/2W ±10% C1 C1HRF-227A Electrolytic 220 μF 50V R15 R2EDZJ561APA Carbon 560 1/4W ±5% C10 C1HFYK102APA Mylar 0.001 μF 50V ±10% R17,18 R2HZPK471A Fuse 470 1/2W ±10% C11 4 2232 00430 Ceramic 0.01 μFx2 250V R19,20 R2EDZJ102APA Carbon 1k 1/4W ±5% C13 C1ERE-227A Electrolytic 220 μF 25V C14 C1HYDZ473A Ceramic 0.047 μF 50V +80,—20% C15 C1CRE-227A Electrolytic 220 μF 16V C16 C1ERE-477A Electrolytic 220 μF 16V C17 4 2232 00430 Ceramic 0.01 μFx2 250V R19,20 R2EDZJ102APA Carbon 1k 1/4W ±5% C16 C1ERE-477A Electrolytic 220 μF 25V C16 C1ERE-227A Electrolytic 220 μF 16V C17 4 2232 00430 Ceramic 0.01 μFx2 250V R131 0 4001 05661 LE.D. DRIVE P.C.B. Assy 131 0 4001 05661 C18 C1ERE-227A Electrolytic 220 μF 16V C18		∆	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310 131 2 6201 21500	Switch P Switch S Fuse T 1 Fuse T 5	ush Pow lide 4-2 .6 A 00 mA	er		R02 R03 R04 R05 R06	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A R2EDZJ272APA	Carbon 1k Carbon 10k Carbon 220 Oxide Metal Film Carbon 2.7k	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5% 1/4W ±5%
C07 C1VRE-227A Electrolytic 220 μF 35V R14 R2HZPKR47A Fuse 0.47 1/2W ±10% C08 C1HRE-227A Electrolytic 220 μF 50V R15 R2EDZJ561APA Carbon 560 1/4W ±5% C09 C1ERE-227A Electrolytic 220 μF 25V R16 R2EDZJ102APA Carbon 1k 1/4W ±5% C10 C1HFYK102APA Mylar 0.001 μF 50V ±10% R17,18 R2HZPK471A Fuse 470 1/2W ±10% C11 4 2232 00430 Ceramic 0.01 μFx2 250V R19,20 R2EDZJ102APA Carbon 1k 1/4W ±5% C12 C1ERE-228A Electrolytic 220 μF 25V 21,22 C13 C1ERE-227A Electrolytic 220 μF 25V C14 C1HYDZ473A Ceramic 0.047 μF 50V +80,-20% C15 C1CRE-227A Electrolytic 220 μF 16V C1ERE-477A Electrolytic 470 μF 25V C16 C1ERE-477A Electrolytic 470 μF 25V C18 C1ERE-227A Electrolytic 220 μF 25V C18 C1CRE-227A Electrolytic 220 μF 25V C19 C1CRE-227A Electrolytic 220 μF 25V C19 C1CRE-227A Electrolytic 220 μF 25V C19 C1CRE-227A Electrolytic 220 μF 16V C1CRE-227A Electrolytic		△ △ △ Δ CO1 △ CO2	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310 131 2 6201 21500 CAPACITORS 4 2232 00550 C1VRE-107A	Switch P Switch S Fuse T 1 Fuse T 5 Plate Hea	ush Pow lide 4-2 .6 A 00 mA at Sink 0.01 µI	=450√)µF 35\	V V	R02 R03 R04 R05 R06 R07 R08 R09	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A R2EDZJ272APA R2HZPK2R2A R2EDZJ101APA R2HXBJ561A	Carbon 1k Carbon 10k Carbon 220 Oxide Metal Film Carbon 2.7k Fuse 2.2 Carbon 100 Oxide Metal Film	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5% 1/4W ±5% 1/2W ±10% 1/4W ±5% 560 1/2W ±5%
C10 C1HFYK102APA Mylar 0.001 μF 50V ±10% R17,18 R2HZPK471A Fuse 470 1/2W ±10% R19,20 R2EDZJ102APA Carbon 1k 1/4W ±5% R19,20		△ △ △ △ C02 C03 △ C04 C05	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310 131 2 6201 21500 CAPACITORS 4 2232 00550 C1VRE-107A 4 2232 00430 C1HRF-337A C1HRY-476APA	Switch P Switch S Fuse T 1 Fuse T 5 Plate Hea Oil Electroly Ceramic Electroly Electroly	ush Pow lide 4-2 .6 A 00 mA at Sink 0.01 µI rtic 100 0.01 µF rtic 330	= 450V) µF 35\ F×2 250\) µF 50\ 7 µF 50\	√ √ √	R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A R2EDZJ272APA R2HZPK2R2A R2EDZJ101APA R2HXBJ561A R2EDPJ2R2A R2EDZJ101APA R2EDZJ101APA R2EDZJ101APA R2EDZJ101APA	Carbon 1k Carbon 220 Oxide Metal Film Carbon 2.7k Fuse 2.2 Carbon 100 Oxide Metal Film Carbon 2.2 Carbon 100 Carbon 1k	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5% 1/4W ±5% 1/2W ±10% 1/4W ±5% 560 1/2W ±5% 1/4W ±5% 1/4W ±5% 1/4W ±5%
C13 C1ERE-227A Electrolytic 220 µF 25V C14 C1HYDZ473A Ceramic 0.047 µF 50V +80,—20% C15 C1CRE-227A Electrolytic 220 µF 16V C16 C1ERE-477A Electrolytic 470 µF 25V C17 4 2232 00430 Ceramic 0.01 µFx2 250V C18 C1ERE-227A Electrolytic 220 µF 25V C19 C1CRE-227A Electrolytic 220 µF 25V C19 C1CRE-227A Electrolytic 220 µF 16V C20 C0JRY-107APA Electrolytic 100 µF 6.3V VR01,02 4 2222 01400 VR 10k-B VR03,04 4 2222 00990 VR 1k-B		C01 A C02 C03 A C04 C05 C06 C07 C08	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310 131 2 6201 21500 CAPACITORS 4 2232 00550 C1VRE-107A 4 2232 00430 C1HRF-337A C1HRY-476APA C1HYDZ473A C1VRE-227A C1HRE-227A	Switch P Switch S Fuse T 1 Fuse T 5 Plate Hea Oil Electroly Ceramic Electroly Electroly Electroly Electroly Electroly Electroly Electroly Electroly	ush Pow lide 4-2 .6 A 00 mA et Sink 0.01 µI rtic 100 0.01 µF rtic 330 rtic 47 0.047 µI	= 450V) µF 35V F×2 250V 7 µF 50V = 50V = 0 µF 35V	V V V +80,—20% V	R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A R2EDZJ272APA R2HZPK2R2A R2EDZJ101APA R2HXBJ561A R2EDPJ2R2A R2EDZJ101APA R2EDZJ101APA R2EDZJ102APA R2EDZJ471APA R2HZPKR47A R2EDZJ561APA	Carbon 1k Carbon 220 Oxide Metal Film Carbon 2.7k Fuse 2.2 Carbon 100 Oxide Metal Film Carbon 2.2 Carbon 100 Carbon 1k Carbon 470 Fuse 0.47 Carbon 560	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5% 1/4W ±5% 1/2W ±10% 1/4W ±5% 560 1/2W ±5% 1/4W ±5% 1/2W ±10% 1/4W ±5%
C18 C1ERE-227A Electrolytic 220 µF 25V Ref. No. Parts Number Description C19 C1CRE-227A Electrolytic 220 µF 16V VR01,02 4 2222 01400 VR 10k-B C20 C0JRY-107APA Electrolytic 100 µF 6.3V VR03,04 4 2222 00990 VR 1k-B		C01 A C02 C03 A C04 C05 C06 C07 C08 C09 C10 C11	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310 131 2 6201 21500 CAPACITORS 4 2232 00550 C1VRE-107A 4 2232 00430 C1HRF-337A C1HRY-476APA C1HYDZ473A C1VRE-227A C1HRE-227A C1HRE-227A C1HFYK102APA 4 2232 00430	Switch P Switch S Fuse T 1 Fuse T 5 Plate Hea Oil Electroly Ceramic Electroly Electroly Electroly Electroly Electroly Electroly Electroly Electroly Electroly Ceramic Electroly Electroly Electroly Electroly Ceramic	ush Pow lide 4-2 .6 A .00 mA at Sink 0.01 µF rtic 100 0.01 µF rtic 330 rtic 47 0.047 µI rtic 220 rtic 220 0.001 µF	= 450 \/) \(\mu \) = 35 \/) \(\mu \) = 50 \/	V V V +80,-20% V V ±10%	R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17,18 R19,20	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A R2EDZJ272APA R2HZPK2R2A R2EDZJ101APA R2HXBJ561A R2EDZJ101APA R2EDZJ101APA R2EDZJ101APA R2EDZJ102APA R2EDZJ471APA R2HZPKR47A R2EDZJ561APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA	Carbon 1k Carbon 220 Oxide Metal Film Carbon 2.7k Fuse 2.2 Carbon 100 Oxide Metal Film Carbon 2.2 Carbon 100 Carbon 1k Carbon 470 Fuse 0.47 Carbon 560 Carbon 1k Fuse 470	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5% 1/4W ±5% 1/2W ±10% 1/4W ±5%
C19 C1CRE-227A Electrolytic 220 µF 16V VR01,02 4 2222 01400 VR 10k-B C20 C0JRY-107APA Electrolytic 100 µF 6.3V VR03,04 4 2222 00990 VR 1k-B		C01	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310 131 2 6201 21500 CAPACITORS 4 2232 00550 C1VRE-107A 4 2232 00430 C1HRF-337A C1HRY-476APA C1HYDZ473A C1VRE-227A C1HRE-227A C1HFYK102APA 4 2232 00430 C1ERE-228A C1ERE-227A C1HYDZ473A C1CRE-227A C1HYDZ473A C1ERE-227A C1HYDZ473A C1CRE-227A C1HYDZ473A	Switch P Switch S Fuse T 1 Fuse T 5 Plate Hea Oil Electroly Ceramic Electroly	ush Pow lide 4-2 .6 A .00 mA at Sink 0.01 µF rtic 100 0.01 µF rtic 220 rtic 220 0.047 µF rtic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200	= 450 V) µF 35 V) µF 50 V = 50 V -) µF 35 V µF 25 V = 50 V -) µF 25 V µF 25 V - µF 25 V -	V V +80,-20% V V ±10% V V +80,-20%	R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17,18 R19,20 21,22	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A R2EDZJ272APA R2HZPK2R2A R2EDZJ101APA R2EDZJ101APA R2EDZJ101APA R2EDZJ101APA R2EDZJ102APA R2EDZJ471APA R2EDZJ561APA R2EDZJ561APA R2EDZJ561APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA	Carbon 1k Carbon 220 Oxide Metal Film Carbon 2.7k Fuse 2.2 Carbon 100 Oxide Metal Film Carbon 2.2 Carbon 100 Carbon 1k Carbon 470 Fuse 0.47 Carbon 560 Carbon 1k Fuse 470	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5% 1/4W ±5% 1/2W ±10% 1/4W ±5%
C21 4 2232 00430 Ceramic 0.01 µFx2 250V		C01 A C02 C03 A C04 C05 C06 C07 C08 C09 C10 C11 C12 C13 C14 C15 C16 C17	4 2312 01400 4 2312 04700 4 2349 20240 4 2349 20310 131 2 6201 21500 CAPACITORS 4 2232 00550 C1VRE-107A 4 2232 00430 C1HRF-337A C1HRY-476APA C1HYDZ473A C1VRE-227A C1HRE-227A C1HRE-227A C1HFYK102APA 4 2232 00430 C1ERE-228A C1ERE-227A C1HYDZ473A C1CRE-227A C1HYDZ473A C1CRE-227A C1HYDZ473A C1CRE-227A C1HYDZ473A C1CRE-227A C1ERE-477A 4 2232 00430	Switch P Switch S Fuse T 1 Fuse T 5 Plate Hea Oil Electroly Ceramic Electroly Ceramic Electroly Electroly Electroly Ceramic Electroly E	ush Pow lide 4-2 .6 A .00 mA at Sink 0.01 µF rtic 100 0.01 µF rtic 220 rtic 220 0.001 µF rtic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200 ttic 2200	= 450 V) µF 35 V) µF 50 V = 50 V -) µF 35 V E 50 V -) µF 25 V X2 250 V	V V +80,-20% V V ±10% V V +80,-20% V	R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17,18 R19,20 21,22	R2EDPJ4R7A R2EDZJ102APA R2EDZJ103APA R2EDZJ221APA R2HXBJ391A R2EDZJ272APA R2HZPK2R2A R2EDZJ101APA R2EDZJ101APA R2EDZJ101APA R2EDZJ101APA R2EDZJ102APA R2EDZJ471APA R2EDZJ561APA R2EDZJ561APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA R2EDZJ102APA	Carbon 1k Carbon 220 Oxide Metal Film Carbon 2.7k Fuse 2.2 Carbon 100 Oxide Metal Film Carbon 2.2 Carbon 100 Carbon 1k Carbon 470 Fuse 0.47 Carbon 560 Carbon 1k Fuse 470 Carbon 1k	1/4W ±5% 1/4W ±5% 1/4W ±5% 390 1/2W ±5% 1/4W ±5% 1/2W ±10% 1/4W ±5%

PHONO EQ P.C.B. Assy 131 0 4001 05700

		Description	Raf No	Parts Number	Description	
Ref. No.	i di co i contro	Description	rter. 140.		VR 150k-Ax2, 250k-	MN
	CAPACITORS	51		4 2312 04660	Switch Push 1Key	
C01,02	C1HRY-106APA	Electrolytic 10 μF 50V		4 2312 04690	Switch Push 8Key DIN Socket 5P	
03,04 C05,06	C1HRY-105APA	Electrolytic 1 µF 50V		4 2352 00780	Socket 4P	
C07,08	C1ERY-475APA	Electrolytic 4.7 µF 25V		4 2359 23220	RCA 6P Jack	
	SEMICONDUCTO	RS		4 2369 22750	Plug 7P	
D01.02	205 5 9040 44210			CAPACITORS		
D01,02 03,04			C01,02	C1HFYK103APA	Mylar 0.01 µF 5	60V ±10%
IC01,02	206 5 2441 40910	IC, LB1409	C03	COJRY-227APA	Electrolytic 220 µF	6.3V
Q01,02	203 5 6850 40050 203 5 7252 27450	TR 2SC2274 E, F	C04,05	COJRY-227AP	Electrolytic 220 µF Electrolytic 220 µF	
Ø03	203 3 7232 27 100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C06 C07	COJRY-227APA C1ARY-476APA	Electrolytic 47 µF	- 10V
	RESISTORS		C08	C1ARY-476AP	·	10V
R01,02	R3DXBJ391A	Oxide Metal Film 390 2W ±5% Oxide Metal Film 120 1W ±5%	C09,10	C1ARY-476APA	Electrolytic 47 µF Electrolytic 4.7 µF	= 10V = 25V
R03,04	R3AXBJ121A R2EDZJ103APA	Carbon 10k 1/4W ±5%	C11,12 C13,14	C1ERY-475LPA C0JRY-227AP	Electrolytic 220 µF	
R05,06 R07,08	R2EDZJ103AFA	Carbon 1k 1/4W ±5%	C15,14	COJRY-227APA	Electrolytic 220 µF	= 6.3V
R09,10	R2EDZJ101APA	Carbon 100 1/4W ±5%	C17,18	C1ARY-227APA	•	= 10V
R11,12	R2EDZJ223APA	Carbon 22k 1/4W ±5%	C19,20	C1ARY-476APA		F 10V F 50V
13,14	R2EDZJ103APA	Carbon 10k 1/4W ±5%	C21,22 C23,24	C1HRY-335LPA C1HCZJ560SPA	Ceramic 56 pF	
R15,16 R17,18	R2EDZJ103AFA R2EDZJ823APA	Carbon Ton	C25,24	COJRY-227APA	Electrolytic 220 µ	F 6.3V
R17,10	R2EDZJ183APA	Carbon 18k 1/4W ±5%	C27,28	C1HCZJ101SPA	Ceramic 100 pF	
R21,22	R3DXBJ330A	Oxide Metal Film 33 2W ±5%	C29,30	C1HCZJ220SPA	Cordino LL p.	50∨ ±5% 50∨ ±5%
R23,24	R2HXBJ121A	Oxide Metal Film 120 1/2W ±5%	C31,32 C33,34	C1HFRJ183A C1HFRJ472A	Mylar 0.018 μF Mylar 0.0047 μF	- - ·
25,26			C35,34	C1HCZK331BPA	Ceramic 330 pF	50V ±10%
27 R28	R2EDZJ102APA	. Carbon 1k 1/4W ±5%	C37,38	C1HRY-475LPA	Electrolytic 4.7 µ	F 50V
			C39,40	C1HCYK181APA		50V ±10% 50V ±10%
ue a De	PHONE JACK P.C.B.	Δεεν	C41,42 C43,44	C1HFYK473APA	Ceramic 0.01 μ F	•••
	001 05671	. 1007	45,46	3 , 2 3 3		
	o. Parts Number	Description	47 C48,49	C1ERE-227A	Electrolytic 220 µ	F 25V
Het. No		O Headphone Jack 3P	040,40			
	4 2502 0000	O 11323 P. 1313		SEMICONDUCT		
			D01,02		2 Diode, RD7.5EB2	
	RMINAL 1 P.C.B. As 1001 05681	ssy	D03,04 IC01,02		IC, HA1457	
13104	1001 03001		Q01,02	TMM-2SC2385-F	TR 2SC2385 F, G,	H
Ref. No	o. Parts Number	Description	Q03,04	TMM-2SA978F	TR 2SA978 F, G, I	Н
	4 2372 0009	0 SP Terminal 4P	Q05 Q06	203 5 6860 4005	0 TR 2SD400 E, F 0 TR 2SB544 E, F	
			Q07,08		TR 2SK104 J	
SP TE	RMINAL 2 P.C.B. A	ssy		RESISTORS		
	4001 05691		001.02		A Carbon 8.2	1/4W ±5%
D. C. N	o. Parts Number	Description	R01,02 R03,04			1/4W ±5%
Ret. N		00 SP Terminal 4P	R05,06			1/4W ±5%
	4 2372 0008	ou Si Terrimai 4	07,08			
			09,10		A Carbon 220	1/4W ±5%
			R11,12 13,14		- Garbon 220	
			R15,16		A Carbon 33	1/4W ±5%
			17,18	3	A Camban 201	1/4W ±5%
			R19,20	R2EDZJ223AP	A Carbon 22k	1/700 -0/0

Ref. No. Parts Number

Description

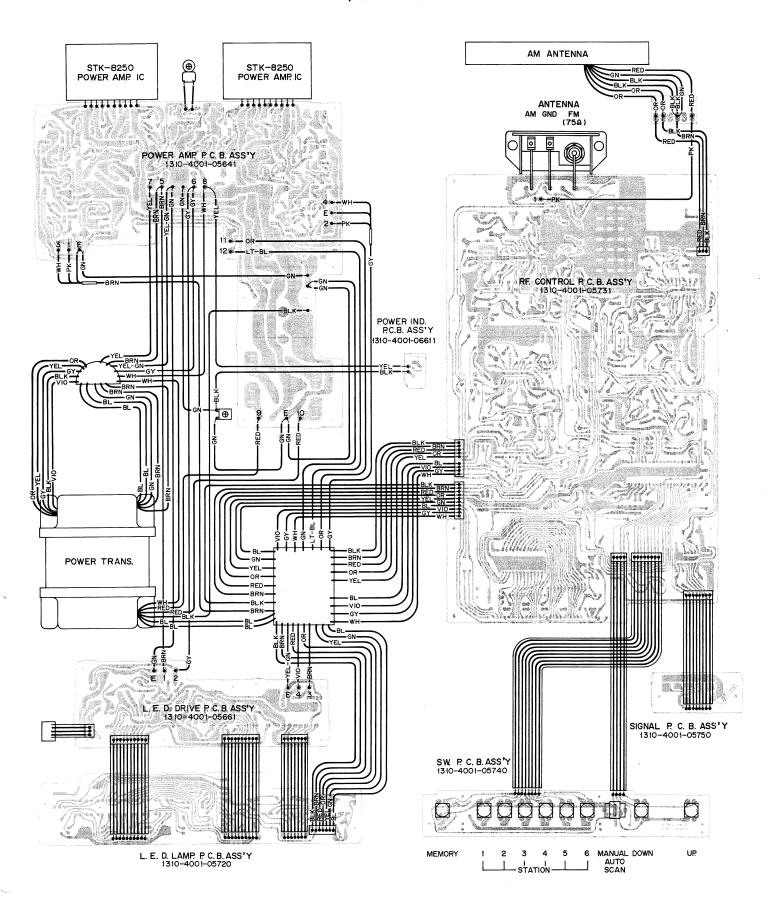
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Description

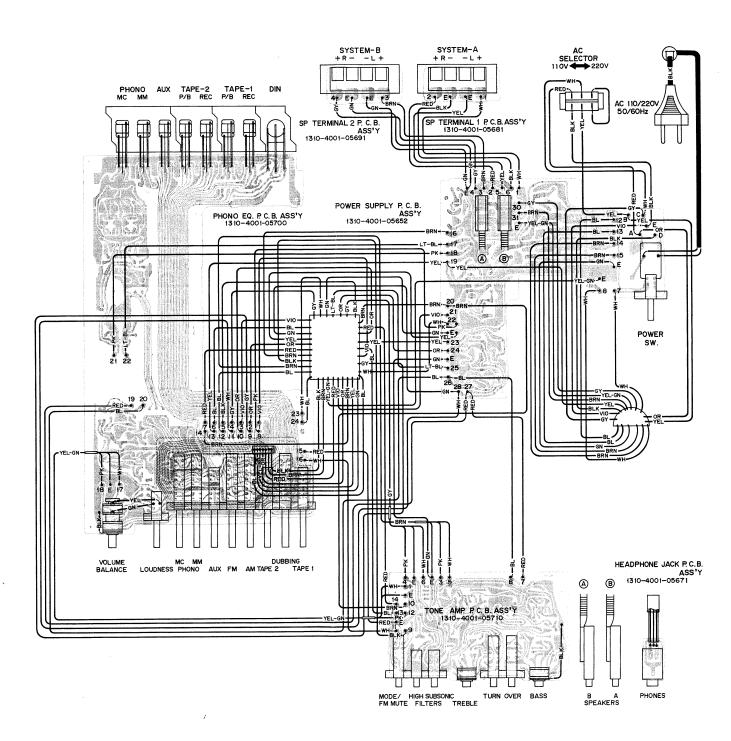
	RESISTORS							RESISTORS						
R21,22 23,24	R2EDZJ101APA	Carbon	100	1/4W	±5%		R01,02 R03,04	R2EDZJ471APA R2EDZJ394APA		470 390k	1/4W 1/4W	±5% ±5%		
R25,26 R27,28 R29,30 R31,32	R2EDZJ104APA R2EDZJ471APA R2EDZJ104APA R2EDZJ331APA	Carbon Carbon Carbon	100k 470 100k 330	1/4W 1/4W 1/4W 1/4W	±5% ±5% ±5%		05,06 R07,08 R09,10 R11,12	R2EDZJ104APA R2EDZJ473APA R2EDZJ471APA	Carbon Carbon Carbon	100k 47k 470	1/4W 1/4W 1/4W	±5% ±5% ±5%		
R33,34 R35,36 R39,40 R41,42 R43,44 R45,46 R47,48 R49,50 R51,52 R53	R2EDZJ184APA R2EDZJ153APA R2EDZJ471APA R2EDZJ473APA R2EDZJ221APA R2EDZJ472APA R2EDZJ822APA R2EDZJ334APA R2EDZJ222APA R2EDZJ102APA	Carbon Carbon Carbon Carbon Carbon Carbon Carbon	180k 15k 470 47k 220 4.7k 8.2k 330k 2.2k 1k	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5%		13,14 R15,16 R17,18 R21,22 R25,26 R27,28 R29,30 R31,32 R33,34 R35,36 R37	R2EDZJ123APA R2EDZJ274APA R2EDZJ222APA R2EDZJ104APA R2EDZJ393APA R2EDZJ105APA R2EDZJ104APA R2EDZJ104APA R2EDZJ102APA	Carbon Carbon Carbon Carbon Carbon Carbon	12k 270k 2.2k 100k 2.2k 39k 1M 100k 220 1k	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5% ±5%		
	MP P.C.B. Assy 01 05710					L.E.D. L. 131 0 40	AMP P.C.B. Assy 01 05720							
Ref. No.	Parts Number	Descripti	ion							-				
	4 2222 01341	VR 100k	c-Cx2				Ret. No.	Parts Number 4 6122 01910	Descript					
	4 2312 04670 4 2312 04680				SEMICONDUCTO	·	ъзу							
٠				,			D01,02	DYY-SLR-54GG		LR-54G	G (LED)			
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14	04 C1HCYK560APA Ceramic 56 pF 50V ±10% 06 C1HCYK270APA Ceramic 27 pF 50V ±10% 08 C1HCYD100APA Ceramic 10 pF 50V ±0.5% 10 C1HCYK101APA Ceramic 100 pF 50V ±10% 12 C1HRY-225APA Electrolytic 2.2 μF 50V						03,04 05,06 07,08 09,10 11,12 13,14 15,16 17,18							
C15,16 C17,18	C1ERY-475APA C1HFYK333APA		0.033 μF		±10%		D19,20	202 5 2470 13540 RESISTORS	Diode, D	S-135				
C27,28 C29,30 C31,32 C33,34 C35,36 C37,38 C39,40	C1HFRJ184ML Mylar 0.18 μF 50V ±5% C1HFYK333APA Mylar 0.033 μF 50V ±10% C1HFRJ184ML Mylar 0.18 μF 50V ±5% C1HFYK222AP Mylar 0.0022 μF 50V ±10% C1HFYK123APA Mylar 0.012 μF 50V ±10% C1HFYK222APA Mylar 0.0022 μF 50V ±10% C1HFYK103APA Mylar 0.01 μF 50V ±10% C1HFYK103APA Mylar 0.01 μF 50V ±10% C1HRY-475APA Electrolytic 4.7 μF 50V C1HFYK223APA Mylar 0.022 μF 50V ±10% C1HFYK23APA Mylar 0.022 μF 50V ±10% C1HCYK181APA Ceramic 180 pF 50V ±10%			±10% ±5% ±10% ±10% ±10% ±10% / ±10% ±10%		R01,02 03,04 05,06 07,08 09,10 11,12 13,14 15,16 17,18	R2EDZJ101APA	Carbon	100	1/4W	±5%			
41,42 C43,44	C1HRY-225LPA						POWER I	NDICATOR P.C.B.	Assy					
C45,46 C47	C1ERE-227A C1HRY-474APA	Electroly Electroly		•				Parts Number	Descripti	On				
	SEMICONDUCTO	RS						SEMICONDUCTO	•					
IC01,02	IKK-HA1457	IC, HA14	57				D01	DYY-SLR-54UR	Diode, Si	LR-54UI	R (LED)			
•								RESISTORS						
							R01	R2EDZJ272APA	Carbon	2.7k	1/4W	±5%		
						- 36	S —							

POINT TO POINT WIRING DIAGRAM

(TOP VIEW)

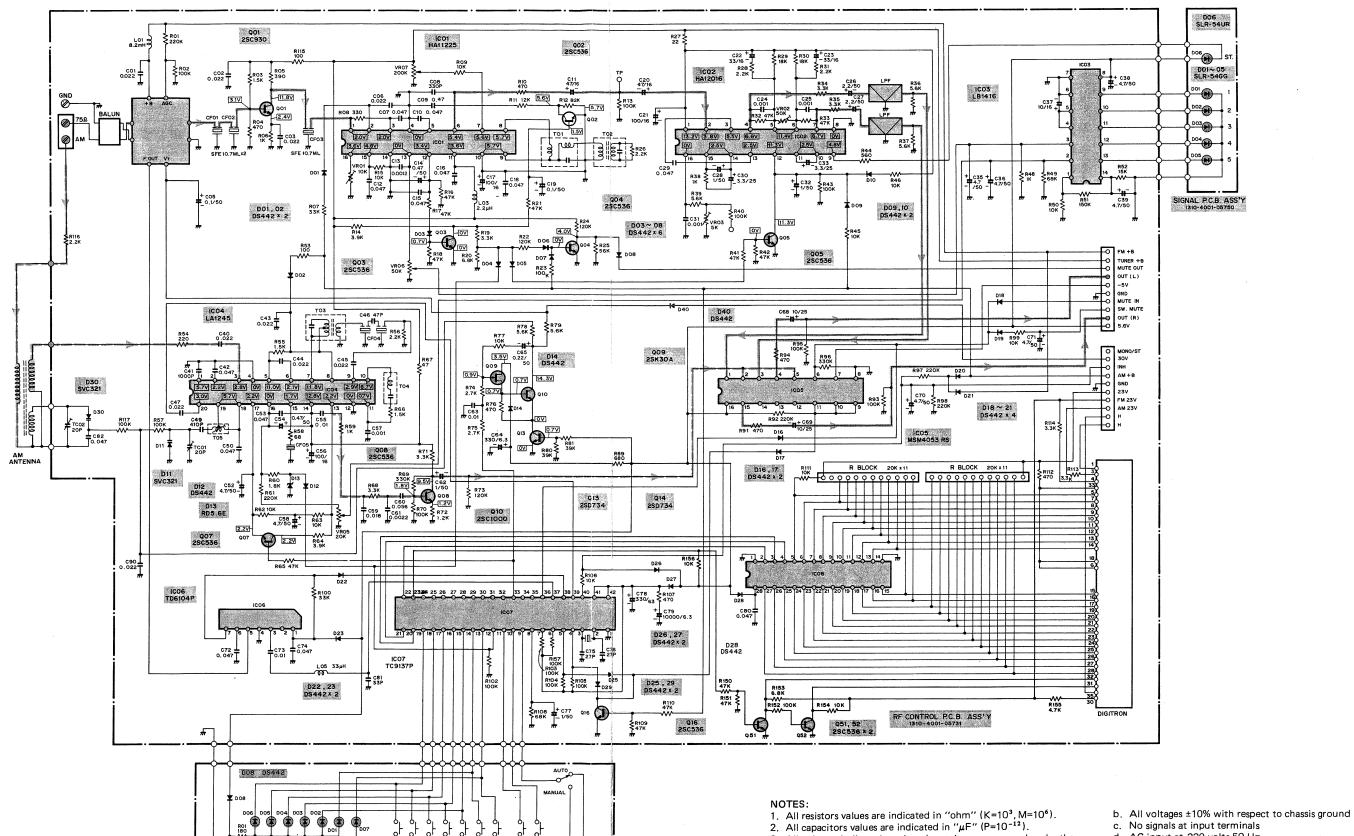


POINT TO POINT WIRING DIAGRAM (BOTTOM VIEW)



SCHEMATIC DIAGRAM

(RF CONTROL P.C.B.)



- 3. All voltages indicated on the schematics are measured under the following conditions. a. Use a V.T.V.M.
- d. AC input at 220 volts 50 Hz
- 4. This is a basic schematic diagram.

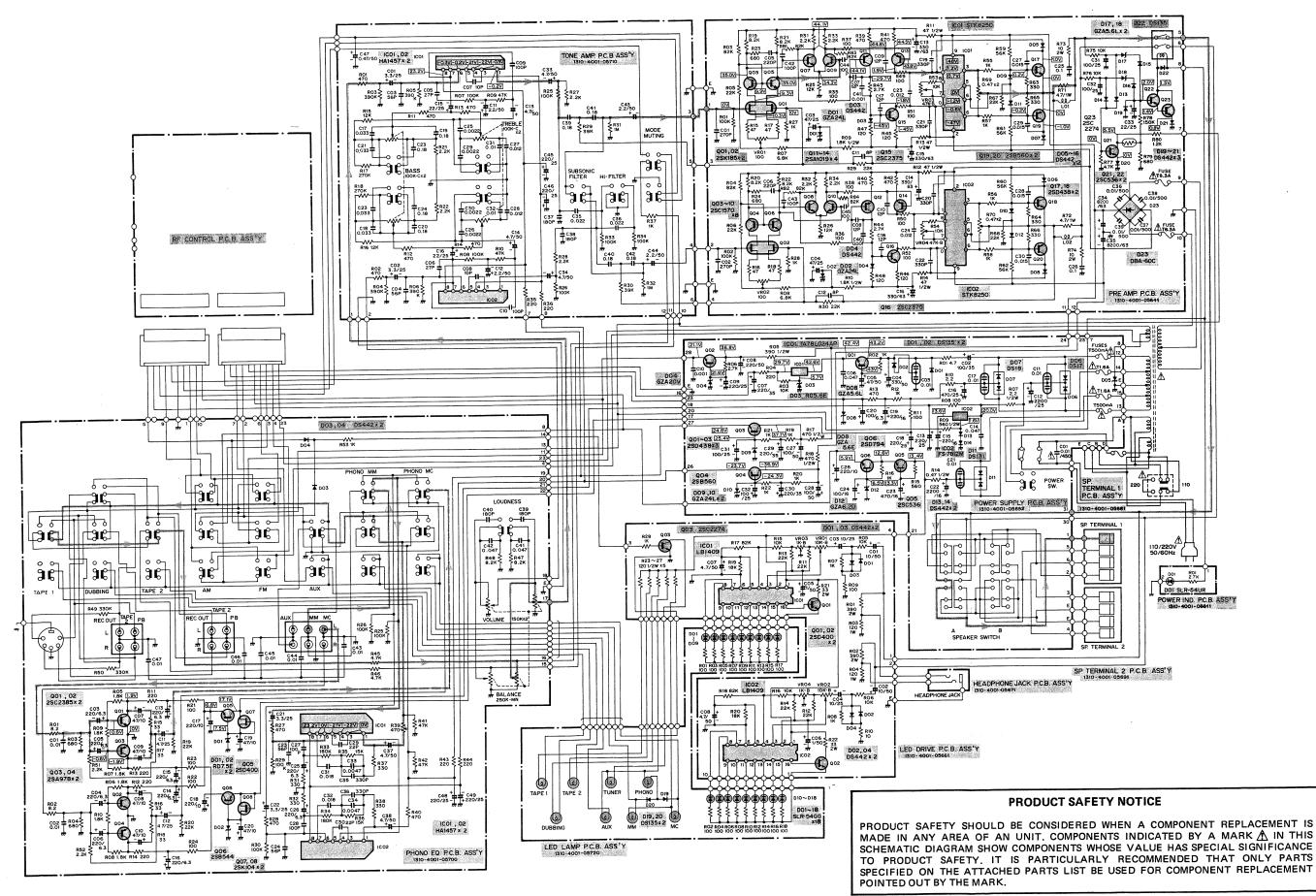
Because Fisher products are subject to continuous improvement, Fisher Corporation reserves the right to make any changes or modifications without notice.

D01~06 SLR54GG x 6

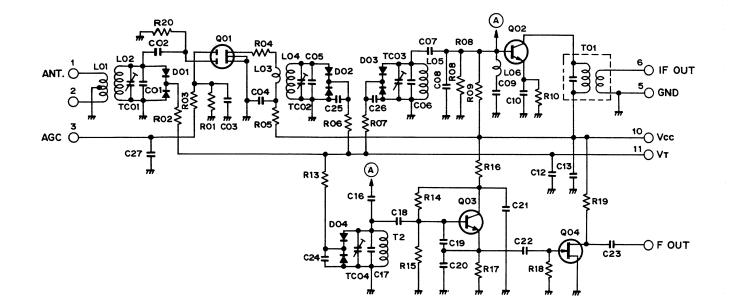
DO7 SLR54UR

SWITCH PCB, ASS'Y 1310-4001-05740

SCHEMATIC DIAGRAM



FRONT END SCHEMATIC DIAGRAM



Service/Ersatzteillager: FISHER HiFi Europa Vertriebs-GmbH Shönstraße 80, 8000 München 90 Telefon 089/2379-7 Telex 5-212384 D

Wenden Sie sich bitte mit technischen Fragen an diese Adresse.

Verwaltung, Verkauf und Auslieferungslager: FISHER HiFi Europa Vertriebs-GmbH Truderingerstraße 13, 8000 München 80 Telefon 089/4145-0

Telex 5-24665 D 5-24033 D